

HELMONT

TERMARY OF Paradoxes

11650



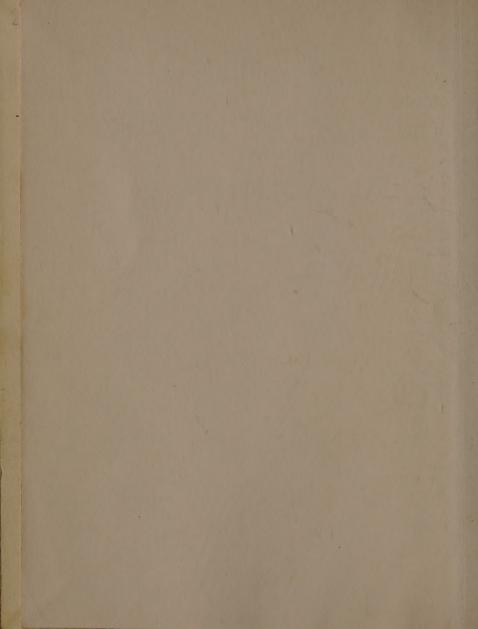


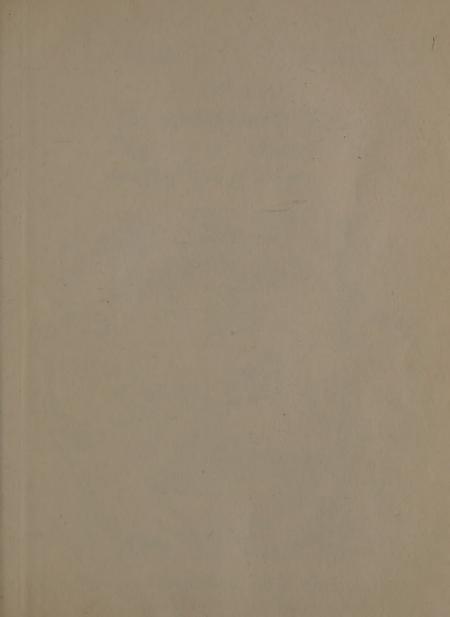


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HELMONT, J.B. van 1) A ternary of paradores 1650. 2) Deliramenta catarrhi 1650







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ETWIES

Deliramenta Catarrhi:

OR,

INCONGRUITIES, IMPOSSIBILITIES,

and ABSURDITIES

Couched under the Vulgar Opinion of

DEFLUXIONS.

The Author,

That great Philosopher, by Fire, Fob. Bapt. Van Helmont, &c.

The Translator and Paraphrast

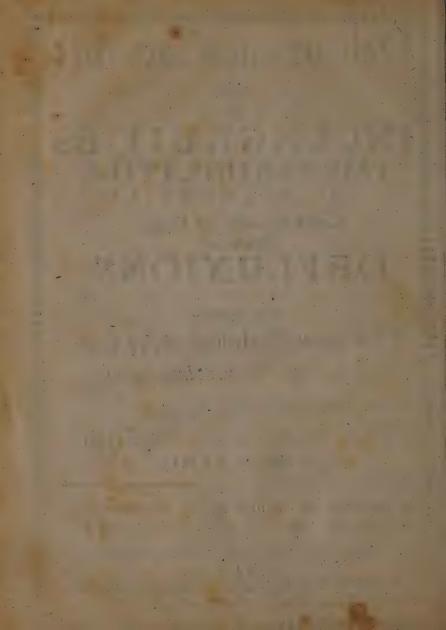
Dr. CHARLETON, Physician
to the late KING.

Δά διαιτητώς, Σλλ' έκ άντιδίηους Ε΄, τès μέλλοντας τάληθες πρίναν ίκανως. ¶. Arist. de Cælo, 1. cap. 10.

LONDON,

Printed by E.G. for William Lee at the signe of the Turks-head in Fleet-street. 1650.

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The Translator to the Judicious and (therefore) unprejudicate Reader.

O malevolent, severe, and uncharitable have the Censures of many (yet such onely, I conceive, whose parcel-literature, and incapacity of the more solid and

meighty Notions of Philosophy, delivered in most proper and significant language, have depraved their Appetite of Knowledge, and made them sit to digest nothing, but crude Sallads gathered in the Poets Elizium, and soft Romances, oyled with the esseminate Extracts of the Stage, and spiced with some new French-English idioms) been of my precedent exercise; that the World might expect from me rather a Vindication of that, then the Publication of a second, of the same kind. But as sever lewelled my endeavors at a far nobler end, then the nothing

nothing of vulgar Applaus: so also have I declared the temper of my Genius to be too Stoical, to feel the weak assaults of that cowardly Pygmie, detraction; whom hansomly to overcome, is to scorne. For common observation will justifie, that no man ever entered the lists with that ignorant Bug-bear, but lost much by the encounter: his judgement inevitably receiving such VV ounds, as the reputation of his Courage could never cure, or compensate.

Nor shall I at all recede from this Maxime, though I here adventure to professe, that next to the discharge of that duty, which, as a Scholer, I owe unto the Publique, in the Explanation, Improvement, and Communication of obscure Truths; the most forcible motive, that incited me to bestow a few recreative houres on the Translation, and marginal Paraphrase of this piece of Helmont, was to have an opportunity of letting these Semi-criticks know: that though they have privately accused, yet would it have stood more with their Honour publickly to have convicted me of such improprieties of expression, or unnatural perversions of my Authors sense, as might make me alter any thing of moment in the former, or change my stile in the For present discourse.

For though I am sufficiently conscious to my self of more defects, and greater unevennesse of my Pen, then the acutest of my Calumniators can discover; and do account it more noble to # detect my own, then others Frailties: yet I dare appeal to the sober Decision of any, whose Studies hold any proportion with the Subject, (and such onely can I allow for competent Judges) whether the fine and mysterious nature of many things, treated of in that discourse, might not have suffered a grosse Eclipse, if drest in a meer-English veil? Whether it be a Crime in me to trace the foutsteps of those Worthies, who have infinitely both enriched and ennobled our Language, by admitting and naturalizing thousands of forraigne Words, providently brought home from the Greek, Roman, Italian, and French Oratories; which, though in the untraveld ears of our Fathers they would have sounded as harsh, as St. Pauls αρρησι ρήμασι *; yet have a few years made so * Ineffabilia familiar unto us, that now even Children Speak Cor. 12. c. much of Latine, before they can well read a ver. 4. word of English? And to draw in to the Cen- *Qui venuter of the scandal, whether I have merited the borum, non Epithite of horosaidan G. * of one that prafers fendum a the Statur.

the noweltie, or affected elegance of the Phrase, to the nerves and importance of the sense; meerly because I rendered some Physical Notions in terms most amply and adequately exhibiting their qualities; and those no other, but such as are most frequent in the Schools: and attempted to paint the beauty and life of Helmonts spruce Conceptions, in Colours most strong and natural; though borrowed from the more pracise, distinctive, and emphatical Tinctures of forreigne Artists?

I can not but appland the Spirit, and happy

Phansie of this Tetrastick,

Casp. Hofmannus in præfatione fua ad lib. de Generat. Homin. Legisti nostros? risisti, Romule, libros? Ut vidi, ut risi, Romule Dive, tuos. Quæ Causa effectus paris in tam dispare causa? Risisti ingenium tute, ego stultitiam.

And when any of the tribe of Zoilus shall shew us something of their own, I may perchance be furnished with an opportunity of Applying them-

But lest If all upon a Parergie, and loosly deviate into that sinister path, which my resolutions abhor; I return directly to my duty, which is to give the impartial Reader the Reason, which perswaded me to exhibite my Explana-

tion

or new-applied Termes of Art, in Latine. In a word, I conceived that the Quality of the Subject, intimated by each of those paradoxical Appellatives, being such as falls under the comprehension of none, but the leading part of learning, and chiefly those, who have more then looked into the mysterious Temple of Æsculapius, did necessarily require it: and that no English, how plain soever, could have driven their ample meaning into those skulls, which

are so thick, as not to admit it in Latine.

As concerning the Verity of these Paradoxes, inspersed upon the ensuing Treatise, though I have formerly declared my Aversation to attempt any Commentary on, or decisive. Assertion of any of his Innovations; in regard I ever found his reason stronger at Demolishing the Doctrines of the Antient Pillars of our Art, then Erecting a more substantial and durable Structure of his own, his Witt more acute and active at Contradiction, then his judgement profound and authentick at Probation: yet shall Insurp the liberty to say, that many of the Grounds of his quarrell against the Schools, in this particular of Catarrhs.

To the Reader.

tarrhs, are sufficiently justifiable; and that if any member in the whole body of Physick needs to have its errors purged, stupidity corrected, distortions rectified, and leannesse reformed, doubtlesse this Capitall one of Defluxions may chiefly deserve the industry of the present, and gratefull improvement of the future Age. Nor should I have onely said it, had not my expe-Etation, that some more judicious and elegant hand will shortly set about that so necessary, charitable, and honourable task; whiftered me, that this difficult, and (therefore) infinitely desiderable piece of knowledge, would unavoydably have suffered irreparable detriment, disparagement, and obscurity from the Contagion of my unequall undertaking. And I am bold to promise, that if any sober mind, imbued with that usefull Lesson of Aristotle, * eri se βέλτιον αναγκή έχειν περίς το κρίναι, τον ώσπερ άντιδίκων η των άμφισε ητέντων λόγων ακηκούτα πάντων, shall come to the dispute, denudate of all interest, and purged from all the dreggs of Adhærence to either side; he shall soon be convicted, that in all that long flux of time betwixt the daies of Hippocrates and us, no one (at least that ever came to our view) among the numerous (warm of .

Patho-

Metaphylicorum lib.3.
cap.1.6 de
Colo lib.1.
cap. 10.

Pathologists *, hath discoursed of the nature *Writers on and causes of such Diseases as are in vulgar the Diseases practice confidently referred unto the Distilla. and Symptons incition of Rheums from the head upon parts dent to the of inferior situation, with such cleare and un-body of man. controulable reasons, as not to have left very large gapps, for the easie illation of these scruples and objections raised by Helmont a. gainst them. In brief; whoever shall so far contribute towards the advance of his own knowledge, as to receive the Arguments here opposed to the traditional Theory of Catarrhs, with that equal justice of improving them to that height, with which they are offered; will, I doubt not, afford us his concurrent vote: that the chiefe impediment to their prevailing upon the beliefe of many differers, will be their Novelty. For hardly doe we part with those Doctrines, which instilled into our tender and unwary yeers, have grown up together with our understandings, and hold our credulities enflaved to an implicite confor. mity, by the tyrannous title of Præscription. A deplorable remora to the timely exantiution of Truth, long fince discovered and complained of by the grave and yet most acute

and firme arguments are sometimes brought to the contrary, with great violence, we approve or reject them according to the conformity or disproportion of those Notes formerly registred. The remove of which obstruction shall be the constant businesse not onely of my studies, but also of my earnest prayer.

Que in Schola & Cathedra aliquando præter tationem, plerumque ad acuenda ingenia juvenrutis, in theoria proponuntur, funt toleranda: que vero in prucci in perniciem ægrorum præscribuntur, potius execranda & damnanda, quam admittenda esse, existimo.

Quid verum, atque decens curo, & rogo, & omnis in Condo, & compono que mon depromere possem. Ac ne forte roges, quo me duce, quo lare tuter? Nullius addictus jurare in verba magistri, Quo me cunque rapit tempest as, deseror hospes. Nunc agilis sio, & mersor civilibus undis, Virtutis vere custos, rigidusque satelles. Nunc in Aristoppi surtim precepturelabor: Et mihi res, non me rebus subjungere conor.

Poeta Philosophus ad vada Muandri voncimit.

VV. CHARLETON.



The Errors of Physicia—ns Concerning DEFLVXIONS.

The Summary.

Ho is the Lord paramont of Diseases and Nature, 2. Some suppositions, by way of premises, 2. The conclusion. 4. Proved from experiments. 5. The explication of the Position. 6. The Lungs the part which first dyes. 7. Why the Author deferted the Schools. 8. The forerunner of miseries to old men. 9. Purging medicaments, why destructive to old men. 10. The testimonies that Physicians give of their own ignorance, Fatall: because too late. II. That Axiome of Physicians desumed from the use of things beneficiall and hurtfull, worthy their blushes. 12. Errors of Physicians. 13. The ground of Paracellus his inconstancy. 14. The Genealogy of a Catarrh, or Rheume, like an old wives fable. 15. Diseases imputed to Catarrhs. 16. How great calamity arifeth to mankinde from thence. 17. By what means . they make the fick their perpetuall flaves. 18. The ordinary fubterfuge of the Schools. 19. Thirteen Politions. 20 Nineteen Conclusions emergent from those Positions. 21. By a sufficient enumeration of Parts. 22. A Dilemma. 23. Some Absurdities. 24. Ignorance in the Schools, the sole Mother

of Catarrhs. 25 The same Ignorance, the fountain of Abfurdities in their method of Cure. 26. Shame, the Cause of the Schools instability, 27. A denial of principles granted in the Schools 28. Whence heat is derived to the Liver. 29, The proof from unsuccessefull remedies. 30, the Tooth-ach examined. 31. The digestion of the Touth and Nails, different from the Digestion of all other patts. 32. A Catarrh upon the inward parts, demonstrated impossible, 33. The Pose, or Cold in the head, described. 34. Absurdities dependent on the opinion of a Catarrh falling upon the stomack. 35 An enquiry concerning the dropping of theume upon the Lungs. 36. What distills from the brain, in the beginning of a Cold, and what in the continuance. 37. An Argument ab imnossi il. against the Cause of the Cough, delivered by the Schools. 38. The originall of the matter caufing affections of the Lungs, declared. 39. The vanity and infertility of remedies, from want of know-40. The decoctions of China, Zarza, &c. neither dry up excrementitious humors, nor prevent their generation. 41. Some Absurdities growing upon this root. 42. What s to be observed in Affections of the Lungs, 43. The doctrine of the Schools, concerning the motion of the Lungs, false. 44. The use of he Lungs, not yet knowne to the Schools. 45 21. Peremtory reasons against the vulgar opinion of theuse of the Lungs. 46. The error of the Schools, concerning the use of the Midrife, confirmed by 8. Arguments 47. 7. Conclusions enfuing thereon. 48. Why the remedies of Physicians are inefficacious and barren. 49 That the means vulgarly used for the prevention and restraint of Catarrhs, are meer fopperies, and dreams worthy onely the heads of old women. 50. Galen wholly ridiculous in his Books of the conservation of health. 51. The Ignorance of the Schools, right worthy our pitty and tears. 52 The diffection of a living Dog, hath deceived the Schools. 53. A new Error, concerning Lohochs, er Lambativ medicaments. 54. They depend on the supposis tion of a Falfity. 55. Some probations. 56. Whence the delusion of Catarrhs was first introduced. 57. The refutation of an upreasonable and wild persuasion. 58. What that is, which imposeth upon our sense, under the delusive disguise of a Destillation. 59. What the second and succeeding matter: 60. Mens ignorance of the Latex, or fountain of ferous humors, hath been the basis to the opinion of Catarrhs. 61. Freoccupation. 62. The torture of night. 62. The inconstancy of Paracelfus. fus. 64. Those liquid parts, which are not yet made communicants of vitality in our bodies, hold no correspondence with the starrs. 65. The marrow not accountable amongst the liquid parts of the body.



Easonable it is for us, now to declare, that the large Catalogue of Diseases, imputed to a destillation of Rheume, from the head even to the extremity of the toes, without any obstacle impeding the descent, is an old wives fable, invented by the common adversary of mankind, on purpose,

lest the Causes of Diseases being known, their Remedies might at the same time be revealed. However it may be, yet at lest is it hence manifested, that the Schooles are, even to this very day, seduced by the errors of the Gentiles, in the point of the Generation of Rheume, its defluction, manner, way, matter, means, places, and organs; as also of its Revulsion and Remedies. For false and absurd must that superstructure be, which is founded on an absurd and impossible Principle. For which reason, the vain and ridiculous hope, which is erected upon Cauteries and Fontanels, is in like manner staggered and ruined: as I shall, in convenient place, demonstrate.

Nature herselfe is the sole Esculapius of diseases: and the Physician no more but her Adjutant; according to that worthy Maxime of Hippocrates. But the sense of that relates onely to such diseases, which nature, by her own single power, usually cureth. But when she hath been so fatally soyled, that she cannot by her own strength arise again to maintain the consist; the Physician, elected by the immense benignity of the Almighty Lord of Nature, and in whose balance all diseases carry the same weight, (i. e.) are equaly curable (such is he, who hath, among a multitude

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of others of the same order, obtained some one Universal Medicine) remains no longer her servant: but is become her Interpreter, Rector and very potent Lord, Let the name of my Lord Jesube exalted to eternity, who ever vouchsafeth his munificence to Little ones, abjected in their own humility! For the Nature of a fick man being the chiefe receiver of Morbifick impressions, and the sensitive mover towards the contrary; the Patient must, then at least, when the diseases entertained become prevalent, yield to their conquering sword, or at best, in the future, live a Calami. tous de atb, unlesse he shall be relieved and restored to his primitive integrity, by the auxiliary hand of the Physician. Yet is it not in the lot of every Phylician, to arrive at Corinth, to ascend to that excellent knowledge: but his onely, who hath the happy qualifications of a Vocation, Election, Exercitation, and Commission. For in the lesse accomplished dayes of Hippocrates, the transcendent virtues of Catholique medicines remained in the darknesse of undiscovery (and in truth, even in our brighter dayes, they conz tinue but jejune, and eclipfed with prejudice and derition, amongst vulgar Physicians) upon which consideration, he is defervedly to be excused, in that he conceived the whole businesse of the conquest of diseases to lye upon the shoulders of Nature, as being the fole protectreffe of life. ¶

Again, I have elsewhere shewed, that, even from the first moment of the conception of an Embrion, there is assigned to every peculiar member one Implantate or Originary Spirit, as immediate president and Governour thereof, and another Influent Spirit, deradiant from the heart, as the excicator and assistant of the former; which yet is not determined to perfection, nor individually disposed, unlesse first subdued to a qualification requisite by the præparatory power of the Implantate. I have also taught, in another place, that every member enjoyes the capacity of Vegetation, according to the virtue of its peculiar Ferment originally inoculated into its principles; and that, for this reason, there can be no expectance of any transmutation,

conductive

conductive to a new generation, unlesse by the mediation of that Ferment.

And from hence, by naturall consequence, we may understand, that all vegetation is made by the spirits; and that so all debility of digestion in the members doth depend upon the diminution of the spirits and their peculiar Ferment, according to that in sacred Writ: My spirit (the involucrum or conservatory of the Ferment) shall be attenuated and (therefore) my dayes shortned. So that a member, which in its integrity affords no visible excrement, must produce a large and constant source of unnatural humor, when once wounded, injured, diminished, or impeded in the vigour of its appropriate Ferment. And, finally, it follows from hence, that according to the degrees of the injury and variety of Causes inferring that injury; there must be generated a difformity and dissimilitude of excrements.

ments respectively.

Diseases, therefore, have their origine, not from one fountain, particularly from the Head (from whence the Schools wildly imagine all Catarrhs to drop down) but from a single Idiopathy, or proper indisposition of every part, superinduced upon the topicall or domestick Ferments. Thus, to example, Wounds, long after their fanation, break forth again, and frequently introduce durable Ulcers, and Apostems: and upon change of Weather, many years after their perfect consolidation, fall into a reincrudescence, and freshly renew their torture. Thus Coughs, Pleurifies, Spittings of blood, and Erisypelous tumors, or inflammations, have their set vicissitudes, and, after considerable intermissions, reinvade. For some excessive montain Cold, or other Damp suddenly surprising, the nightly Aer, marish or uliginous Fog, or malignant Fume belched from the acide bowels of Mines, doth frequently, with one affault, so violate and ruine the Ferments of the brain, or Lungs, that from thenceforward, during the whole after-life, they become the too fertil magazines of various excrements. After this manner also in the eyes, ears, teeth, jaws, &c. Excrements (not 3.

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(not fuch as the mucous or flimy excretions of the brain)

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are ordinarily occasioned by the irregularity or diminution of the Ferments peculiar to those parts. So Compbs and Asthman, or difficulties of respiration first begin: and persever by a continued Ferment. Not, in sooth, by reason of a viscid Phlegme dropping continually from the head : but engendered in the womb of the Lungs, by a violation of their domestick Ferment. For the Lungs more easily submit to the invasion of any forraigne injury, then the o ther parts of the body: in regard, the Lungs is of all mens bers the first that grows old, decayed, and dies. As is manifest from the Cough generally infesting old men, and from the rattling in the throats of all dying men, though they perish by any other disease, and not by affections of the Lungs. For this is proper to the Lungs, in this respect, that they continually fuck in crude Aer, and being neer to the heart oppressed, lavishly expend their own strength, and by reason of that exhaustion, decay much the sooner.

In the first place I dissent from the Schools, because I very well know this kind of vitiosity in nature to belong to the parts containing, and not to the humors contained. For excrementitions humors of this kind contained, are certain productions, which are begotten by the Archem, or vitall president of the particular parts, deprayed by some no-

xious inquination precedent.

In the fecond, I diffent from them also in this point, that I stand assured, that this evill is topical and primary, and not communicated by Deuteropathy or consent with the head. For the Coughs of old men, which for the plurality discourage all hopes of restauration, arise from this root; that in the lowest and smallest branches of the Respiratory Artery, or pipe of the Lungs, there doth constantly reside such a quantity of excrement, generated in the Lungs, which doth not onely obstruct the tubes or conduicts: but also, by the contagion of its presence, deprave and diminish the Local Ferment; whereupon there is hourly produced a new source or supply of excrements, as the plentiful

plentifull maintainance of Coughs, which in men once entered the calamitous confines of old age, are hardly cured, by remedies known to vulgar heads: inregard such remedies neither arrive at the part affected, nor, in troth, are they endowed with any restauratory faculty. These kinds of excrementitious humors, therefore, are no other but topicall defects of the parts misaffected: and every particular part hath its particular debility, whether innate or acquisite, from a diminution of its vegetative Ferment.

And thus it is evident, that the various streams of excrements flowing from the various parts of the body, are all

derived from this one fountain.

On these firm grounds I apprehend, first, That all repetitions of Purgations, in these affections, are frustraneous and burifull: in respect, they level their power onely against the productions, or Effects, and not against the Causes; and chiefly because such viscid excrements, seated remotely from the stomack, are too stubborn and refractory to yield to the laxative operation of Purgers. You may pleas to adde, that although Laxatives may feem to have afforded ease and relief, for a day or two after their use; insomuch as the masse of crude and inconfected blood in the mezaraick veins being voided by stool, there must of necessity fucced the more sparing dispensation of blood through the body, and penury of nourishment in the Lungs, and by consequence a lesse quantity of excrement be rejected: yet do they, by substracting from the necessary aliment of the whole, and by leaving behind them an evill tineture in the instruments of common digestion, every day more and more infringe the univerfall oeconomy of the body, and impugnethe conserving vigour of nature.

This when Phylicians darkly, as through a veile, discover, and remain ignorant, that they have afforded no benefit to their Patients, by the exhaustion of the laudable juces of the body, and the diminution of naturall vigour; they at length remit them to the sober rules of Dier, and kitchen physick, as the onely hopefull means of their reco-

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very, and so leave them, by the painfull use of Fontanels. and reiterated moderate Purges, to run out their remaining sands, medicaly (i. e.) miserably. By which Concession. first, they infinuate that wholesome and moderate diet is to be preferred to most of those unfaithfull medicaments of the shops: and upon the testimony of their own unhappy experience, conclude, that the Patient ought to abitain from them, as hurtfull, and at best but rarely to be used. Our wish is, that now, after so many destructive exhaustions of sick mens strength, they would sit down contented, and in the future no more attempt, by the same fruitlesse means, to dreigne the hopes, bodies, veins, strength, and purses of the sick. At lest, I wish, that they would be mindfull of their own Axiome, wherein they unanimously consent, That the chiefest indication of the cure, is to be desumed from the benefit or barme which things already used bave introduced. Which rule, although it be worthy the blushes of learned men, and onely fit for the conformity of Empyricks: yet, it may be wished, that, by the instruction thereof, they would be reclaimed from the praclice of their former errors, and no longer in Coughs and Consumptions return to those inefficacious remedies, which they have observed, never to have been beneficiall to any. For then would all Purgatives, Phlebotomy, Errbines, Apophlegmatismes, * Lambatives, drinks of China, Zarza, Saffafras, Cauteries in the Coronal suture, and other deceitfull remedies of the same order, be wholly layed aside, which are brought into ale by Phylicians, that they might not appeare to have received their fees for nothing. It is also to be wished, they had suffered themselves to be instructed from their own practice, that while they pointed their endeavours directly against the Ablation, Revulsion, Derivation, and precaution of secundary Effects, viz. the Excrements wept from the injured Archem of the particular part: they at the same time tacitely confessed, that they neither understood their originals, nor fet about the Cure of them, according to the just method of beginning at the remove

*Errhinum est medicamentum, quod naribus inditum, ex cerebro, sine sternutatione, humores & præsertim pituitam evacuat.

II.

* Apophlegmatismi sunt
remedia, quæ
in ore aliquandiu detenta, ejusque cavum
lenter serientia,
per emissiria
palati, copiosam
pituitam è cere
bro deducunt;
quæ sensimpostea
frequenti sputatione facilè excluditur.

of their primary Causes. And they had farther discovered, that a medical Course of Diet, is but a wild, languid, invalid and indeed desperate kind of remedy; and Kitchen A-phorismes too contemptible a militia to encounter so formidable an Adversary, already entered upon the borders of life, and ready to dissolve the discordant Harmony of the whole Composition, by the generall distusion of its tyranny. No wonder therefore, if the Common people, observing the vanity of such Cures, have taken occasion to create this proverbe, The best physick, is to take no physick.

More then once have I lamented, out of a deep Commiseration of the hard Condition of man, while I read over whole Centuries of the Councels of Physicians, and chiefly their Commentaries on the 9. Rhas. ad Almansorem, where they run over all diseases of the body, from the Crowne of the head to the fole of the foot; that digging into the Center of each disease (as they believe and glory) and there exploring the Grandfather, or procataretick Cause thereof, they ever and anon lay the blame on some one singular distemper, either naturall or acquired: but yet with fuch a referve of uncertainty, that they dare not precifely determine, whether they ought to account that distemper for the disease, or onely for the Antecedent Cause of the disease, about which they Consult. But to prevent mistake, and to be sure of the right, generally in all infirmities they accuse both beat and cold. For example, in most, they cry out upon a Frigidity of the stomack, either solitary, or combined with an excessive Heat of the Liver; whence they foretell Catarrhs to be engendered, and maladies of those parts, upon which such rheumes shall be rained downe: and this hint they pursue unto the exploration of the nature not onely of very many Internall, but also of most External and Cutany defects. And with such Theorical and Practical decretals do the schools season the brains of their Disciples. For thus are infirmities of the eves, ears jawes, tongue, teeth, cheft, arms, loyns, and thighs, charged upon the account of Catarrhs. Thus have

12.

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14.

* Princ pia

Hypostatica

Tunt, que majori vi ac effica-

sia præ reliquis

pollent; unde

ın Schola Her-

sa dicuntur,

Mercurius, &

Sal. Salest prin cipium byposta-

ticum, cum vi

coagulandi. E-

jus signatura

cus sit fusitis,

metallerum in-

meticaCheironia virilia, virtuo-

have Coughs, Consumtions, difficulties of respiration, Pleurifies, Inflammations of the Lungs, Apoplexies, Pal. iles, suddain Deaths, Impostumes, Spittings of blood, found their pedigrees deduced from Distillations. Thus finally, is the stomack infested with Vomiting, Nauseounesse, dejection of Appetite, and debility of Concoction: as also the Liver and Spleen become misaffected. For crude and indigeftible Phlegme being dropped downe from the retort of the Head, Obliructions, Hardnesses, Dropsies, Apostems, Schirrous tumors, Fevers, torments of the bowels, &c. are listed under the conduct of Catarrhs.

To which Epidemick tradition of Catarrhs, Paracelfus, though otherwise above modesty triumphing in his invention of Tartars, and the 3 first Hypostatical Principles, *doth frequently subscribe, and alwayes openly acknowledge the name of Defluxion (flussen) staggering into self-contradiction, under the drunken guidance of that great Lady,

Incertitude.

And this fabulous scene of Defluxions, which indeed is very well worth our serious tears, do the Schools so polish and trim up, and deliver from hand to hand down to postefuntq; Sulphur, rity; that it now dares plead prescription, and usurpethe facred dignity of truth: yea common Idiots, by their own infirmities made paffive Physicians, tire my ears with a tedious lecture of their Catarrhs. Whereupon, fince it is a taske fermentandi & extremily difficult, and fuch as my Genius abhorrs, to root out a cultomary doctrine from the minds of men unacquainted with more rationall wayes of learning, and in the place thereof, implant the feeds of folid truth; chiefly when est, ut intrinsevulgar heads are of that temper, that, like new veffels, they

ftar of fixus: Sulphur principium est bypostaticum, ex trinsccus autem combustibilis et incinerabilis. cum vi maturandi, tingendi, homogenea attrahendi, heterogenea repellendi, tendendi a centro ad circumferentiam, & vicissim. Hujus squatura est, ut intra sit fixum, oleaginosum sive pingue: extra inflammabile effe & fugitivum. Flamma quippe est Sulphur volatile. Mercurius est principium hypostaticum, cum vi vegetativa et instaurativa. Hujus signatura interna est fovere ignem potentem : externa vero est liquidum, glutinosum, incombustibile & frigidum esse.

Joh. Raicus tract. de podagra.

hardly

hardly part with that odour, wherewith they were first seafoned: it is my custome, even among persons of honour, to affect filence, not to preach upon the disease, or its Gauses, feveral kinds, and remedies; but quietly concealing my detestation of the easie theory of the Schools, and dissembling an ignorance of all, go away as confenting to whatever hath been said. Yet, in some places, I adventure to leave a hint, that I am otherwise instructed, that Fools are not constellated to a capacity of medicinal Principles, nor my selfe to be their Pædagog. At best, I cannot but admire, that no man hath hitherto, after so long a revolution of time, ever discovered, and made animadversions on the palpable and Superlative ignorance of Physicians: but that the grey-haired dreams of the Grecians have drawne the whole Christian World after them, into a servitude, * that is ridiculous, * Vocabulum lying, and pernicious to humane society. To particular; hie ab authore they generally conclude that the head from whence their "wipatim, eft Nilus of Defluxions doth originally spring, is a Cold Distem- autem exprimit per of the stomack, and an hot distemper of the Liver: and nedum cultum that the greatest part of mankinde is in subjection to this divinum, quo tyranny. The manner of its generation they deliver thus; fenfu legitur a-That the stomack, incessantly, during the whole act of Concoction, pud fob. Evan-receiving an accesse of immoderate heat from the Liver, must of harpica, mose. necessity, all that while, send up whole clouds of vapours into the pereir no Bia: braine: and that hyreafon the brain is, by its native temperament Cold, and fee, like a cover over a boyling pot, or the head of an tutem, juxta Alembick , in the highest region of the body; all those vapours that afcend into it, are againe condensed into Water; Which, since according to the propenfity of its nature, it must tend downwards, that theperi. c. doth afford an ample somee to distillations; and a generall main. Blas Soux eres: rainance to most diseases. That if this torrent fall down upon the & illud provereyes, ears, palate, teeth, &c. those parts have very good reason to bewaile, and with plenty of rheume lament their unkinde destiny, ev, tempori ser-in being so neer neighbours unto, and lying within reach of this vive tyrant, the Brain: but if upon the Lungs, it is quickly the ineuttable occasion of Coughs, Difficulties of respiration, and in fine of Consumtions, of palpitations or tremblings of the beart, and so of immature

Latria; NaTpela ast etiam serviillud Sophoc. in Ajace, Siag Nareids d'of for bium Phosylid. naspe harpeu-

15.

* op: Eis, cibi appetentia proprie dicitur; quo sen'u et Juvenal. usurpavit pro vehementi edendi aviditate,ra. bidam facturus erexim.

materia bac tarin e dem coacervata, & ratione interni & tionis princi- geny of Ulcers, do they father upon Catarrhs. pij, in lapideam induratà duritiem. Hi autem ante mortem vix deprehenduntur, et medisinam sper-

ad'pag. 68. în tract. de mag netica vulner. eurat. & ibi fuse explicatum invenies, quid apud medicos designatur per Catochen. 16.

immature death. But if the stream be turned upon the stomacks then doth the stomack suffer the just purishment of its former di-Stemper, by admitting debility of Concoction, Crudities, Vomits, Orexies * or insatiste Appetites, Sweunings, fainting Pains of the mouth of the flomack, Obstructions, Laskes, durable Fluxes of the belly, violent ejelions of Choler upward and downward, fits of the Colick, Atrophies, or universall lean ffe from decay of Nutrition, Dropfies, Schirrous tumors, and all other defects of the instruments officiall to common Digestion : yea Fe. vers, Putrefactions of the blood in the veins, as also stones of the Spleen, * Kidney, and Bladder, bave their ordinary materials quandoq; in Li- from the slime of this Defluxion. That if these rivulets creep inene reperiuntur, to the inmost closets of the brain, then sudd sin death, Apoplexies, and Palsies immediately ensue: but if in the hinder part of the tarea longa die head, by the neck they chance to mander into the Nerves, Arteries, and Muscles, then must Gouts, Palsies, Pleuresies, and Convulsions of the receiving parts, unavoidably be introduced: yea all nativi coagula- Chirurgicall defects, as Pains, Apostems, and the numerous pro-

> That if this deluge be not evacuated and dreigned by some of the forementioned suices, but becomes a standing pand, from whose oppression the brain is not able to deliver it self, neither by the Aquaducts of the nostrils, nor the laborious pump of Coughs: Ob! then instantly follows, a stupid drousinesse, an inexpugnable propensity to out sleep Endymion, * Catoches, a Lethargy, Verti-

* remitte oculos go, Apoplexy, losse of Memory, and perdition of Sences.

For besides these forementioned distempers of Heat and Cold, and Defluxions necessarily resulting from thence; the Books, Orations, Councels, Conversations, Chairs and Practices of Phylicians found of nothing: and so the whole bulk of the Art of healing, seems, now a dayes, to be moved upon the slender hinges of Purgations, Phlebotomy, Scarifications, Baths, Sweatings, Cauteries, and, in fhort, upon no other then the diminutions of strength, and emaciations of the body, or exficeations of Rheumes.

To which end, they impose upon their Patients, the decoctions of the roots of China, Zarza, and the wood of

Saffafras.

Saffafras, brought from the East-Indies, upon designe of drying up the luxuriant moviture of the brain; for the most part measuring the extent of the Pharmacenticall and

Distericall Theory, by the rule of Heat and Cold.

And by this means, they never release the fick out of their hands: but perpetually oblige them, like purchased Bondslaves, to the irksome observance of their Precepts; though with manifest despair. In regard, while Physicians remain ignorant of the fundamentals and Causes of the disease, and by the light of their own unsuccessfulnesse read the vanity of their Operations, they must stand convicted of the impossibility of the Sanation: upon this ground, that the naturall Frigidity of the stomack, doth Antipractically, or by Counter violence, impugne the Heat of the Liver; and so those remedies which would be beneficiall to the stomack, must prove offensive and dangerous to the Liver, and so transpositively.

All which impostures, fince they conspire to the extirpation of the race of Adam, to the desolation of Commonwealths, and utter oblivion of familyes; I could not but think it my duty (what in me lay) wholly to subvert and dismantle this exsecrable heresie of medical Doerine: and fo much the more compulsion had I upon my conscience to attempt it, in confideration that this Pestilence hath possesfed the heads of our Europeans, ever fince the dayes of Galen, * Proprio dida-

untill now. *For rich men learn this Doctrine from the thro, inquit Helcostly distates of their Purses, and what they have learnt, montius; &they foon communicate to others: and thus all diseases Santgov enim have their stories written in the monstrous Romance of sount idem, Defluxions. Against which I shall declare, by Positions granted in the Schools. T

1. The stomack of man, during life, is actually Warme, and its interior membrane or Coate bedewed with a cer-

tain mayfture.

2. And impossible it is, that any aqueus bumidity should be actually feething in the body, and not at the same time send forth plenty of Vapours from it self.

17.

18.

latine, live præmium doctrine.

3. The superiour way from the stomack, is the Gullet, or of opphagus, being a membrane round long and hollow, as a Pipe or Cane, extended from the stomack even up unto the jawes, and in substance the same with the interior Coate of

the stomack.

4. This Gullet, by the privilege of its native constitution, is ever actually moyst, and constantly (except at times of swallowing) actually four (otherwise, distorted in awoydance of a Vacuum, it would laterally fall together, no otherwise then a bladder that wants some guest to fill its Cavity:) and the fides thereof mutually meet and touch each the other, by the compulsion of that necessity of Nature, which forbids a Vacuity. For the Gullet containg in it, neither meat, drink, nor aer, would of necessity be empty, should it remain open. But that it is not open, is evident from this, that otherwise, at the swallowing downe of every morfell of our Diet the Aer, which would be beneath the morfell, and oppose the descent thereof, were the morfell proportionate in gravity to the realisency of the Aer, must be rammed downe into the cavity of the stomack; and so there must follow for every morfell swallowed a Belch, or redischarge of that aer, by the superior outlet of the stomack. Finally, fince the membrane of this Gullet is always moult, the fides thereof would of necessity fall together, if nor diftended by some force: which is never observed in the diffections of dead, nor could be of any use in living bodies.

5. The mouth of the stomack is shut up by a Natural mo-

tion, and not by a Voluntary.

6. And Anatomy affords no other knowledge of the Gullet, more then that it is narrow, lockt up beneath by the Pylorus or inferior orifice of the stomack, and in the neck of man on all sides compressed by very many vessels circumiacent.

7. The Gullet neither sucks in, nor containes any Aer: for by reason of its proper motion, naturall to it as a moyst membrane, and want of any body to distend it from within,

it falls together on all sides.

8. The

8. The Gullet is not opened longwayes, but during the descent of Aliment. Which if very dry, makes a stand in the passage, nor easily descends, unlesse driven down by liquor superadded : which could not be, if the Gullet contained aer beneath the morfell, unlesse there followed a Belch upon the deglutition of each morfell. Yet the top of the Gullet, about the Larinx or head of the wind-pipe, is commonly open.

9. The lower end of the Gullet is contracted by an aliene power, and is therefore never opened but by the violence of fome aliment or other tenent, either entering into, or expulsed from the stomack: Or upon the knocking of Hunger, it may be unlocked by a strange key, i. e. not by its own motion, fince the humidity of its sides naturally disposeth

them to Concidence, or falling together.

10. No Aer, and much leffe Vapour, ariseth out of the flomack, and afcends, without giving the loud report of

a Belch.

11. Though that heat, which is necessary to the stomack, immediately causeth the exhalation of vapours: yet it follows not, that the same heat should protrude those vapours upward, with so great violence as is required to break open the dore of the fromack, being fast lockt, and distend the Gullet, fince any one of these contradictory These being conceded, it will be a genuine inference, that every man must be troubled with continuall belchings.

12. In the stomack, as in all other vessels moderately hot, every watery vapour doth sooner, upon the lest compression, return to its primitive confisence, and unite again in drops; then to be of power sufficient to elevate and distend a closely compressed membrane of considerable magnitude. Where we observe, by the by, That Vapours are not the Cause of Belchings: but onely the Gas silvestre, * or a certain Wilde *Gas bifurea spirit exhaling from some aliment.

tum, ab Helmontio nostro

fabricatum inveni : primum scilicet Aqua, sive Meteoron ; secundum sylvestre. Gas Meteoron designat Aquam, in vaporem, per geniale aeris frigus (ubi omnia eo semel deducta consumuntur, & in pristinum aqua elementum retrocedunt) resolutam. Quinam vapor alterius

utique fortis eft, quam vapor per Calorem suscitatus: eo itaque re pectu, paradoxi licentia, in nominis mage convenientis egestate, halitum illum Gas nominavit Auther, non longe à Chao veterum secretum. Gas autem sylvestre, est spiritus quidam natura hominis plane hostilis. arque á primoribus nondum cognitus; qui nec vafu cogi, nec in corpus visibile reduci, nise extincto prius semine, potest. Corpora enim continent hunc spiritum, & quandoque tota in ejusmodi ferum halitum abscedunt : non quidem quod actu insit ipsu (siquidem detineri non posset, imò totum concretum avolaret) (ed est spiritus concretus, & more corporis coaquiatus, excitaturque acquisito Fermento, ut in vino fermentante, omphacio, pane, by dromellite, itemque ruber ille ex Chrysulca operante eructatus : vel additamento peregrino, ut ex auro, adjecto (ale Armeniaco: vel tandem per aliquam Dispositionem Alterativam, qualis est Assatio, respectu pomi. Hujus autem ignoti hospitis tum ortus, tum hostilitatis atque implacabili ferocia, qua nobis insidiatur capitaliter, exegest ulterius paulo inhærendum: ea potissimum relatione, ut nedum Quidditas atque Nativiras hujus Gas innotescant ijs, quibus contigerit rondum omnia Helmontij mysteria perlustrare; sed etiam ut istud epitheton (sylvestre) non incongruenter illi appensum commonstretur. Primò itaque quoad essentiam ejus quidditativam ; meditare , turpiter admodum esse delusos qui credidere Gas uvarum est vini spiritum in multo. Gas enim uvarum & multi, ex fermento ebullitionis concepto excitatum, est tantum in via ad vinum; non autem Vini, in sua jam dignitate constituti spiritus. Intercedens enim inter utrumque Fermentalis Dispositio, rem præcedentem disponit in sui transmutationem, ut inde alud ens frat. Siguidem extra dubitationis aleam oft, omnem transmutationem formalem præsupponere Fermentum corruptivum. Secundo, quoad Nativitatem Gas in uva; nota. Vva ille sa asservatur & exseccatur: si vero pe'lis ejus semel fuerit disrupta, & vulnerata, illa mox fermentum ebullitionis concipit, hincque transmutationis initium. Vina ergo Uvarum, pomorum, baccarum, mellis, itemque flores & frondes semel discerpta atque contusa, fermento arrepto, bullire ac ferve e incipiunt; unde Gas. Ultimo, quantum ad ejus Malitiam ac feritatem attinet, senopoli (ciunt, vinorum Gas, si multa vi intra cados coerceatur, vina furiosa, mala atque nociva reddere. Quapropter & morbidum Gas, uva affatim comesta, pluries ægritudines anxias consitavit. Siquidem Fermenti spiritus tumultuantur, & cum digestioni nostra sint inobedientes, spiritui Vitali le per vim affociant, imo fi quid sudore tenus excerni sit paratum, id saa ferme iti aciditate grumescunt, atque in-Genes pariunt moleflias, tormina, diarrheas, ayfenterias. Sed Elymi Gas explicationi fatis Superque hactenus insudatum.

13. That granting a Natural spirit of the yet impersed blood in the Liver, all the veins, by reason of their constant heat, would either about the parts of the Liver, or in their capillary branches, generate Catarrhs, which the Schools have baulked in their hunting of diseases.

The Conclusions erected on the premised Concessions.

From these Positions, confessed by general Consent, and demonstrated by the ocular evidence of Anatomy, it na-

turally follows, in the first place

1. That no vapour can ascend from the stomack to the head; and the materiall Cause of Catarrhs, vulgarly believed, must faile, and the very groundwork of the doctrine of

Defluxions be demolished.

2. If so great a mist of ignorance hath surrounded the world in things manifest and obvious to the observation of sense: what Cimmerian blindnesse may not be suspected, in the common theory of such things as lye more deep and abstruse, and therefore have their Causalites onely discernable by the opticks of the most acute Reason?

3. That submitting our beliefe to the doctrine of the Schools, a healthy and hot stomack would generate more and greater showers of Catarrhs, then an unhealthy, weak and cold one; which is point blanck contratry to the opinion

commonly embraced.

4. That, in order to the Cure of Defluxions, according to the consequence of their theory, we ought to endeavour the Refrigeration, rather then the Calefaction of the stomack.

5. That all men would of necessity be equaly obnoxious

to Catarrhs, and so continually infirme.

6. Upon this ground, that all men have their Gullet, Brain, and Stomack actually hot, equaly moyst, and constitu-

ted in the same Figure.

7. That every man would naturally, like swine, belch at every step he treads: since the indefinent beat and may sture must unavoydably transmit continual Clouds of vapours from the stomack.

8. That although we should descend to allow, that a vapour exhaled from the stomack might be of force suffici-

D ent

ent to diffend the Gullet; yea and be evaporated without ructation: yet would it remain of exceeding difficulty to inter an apprehention, that this vapour would not fooner be discharged by the annexed and open tubes of the mouth and nottrils, then make a long and difficult progresse up to the brain, by the narrow Meanders and blockt up avenews of a membrane. That this Vapour, steaming up from the furnace of the stomack, would necessarily carry along with it a fulfome Hautgoust of the meat then suffering the act of Concoction, by the variety of ungratefull odours acquaint the note with the unfavoury story of its various mutations, and be horridly offensive both to our felves and company: and thus if all those frequent belches were thus strongly perfumed by Corruption, our very breath also, continually blasted with them, would save us the trouble of forreigne poylons, disparage the fatall emissions of the Basilisck, and be as dangerous to Conversation, as the sumes of the Lego di Tripergola* in Campania, or the sulphureous farts of our Grandmother, when delivered from the Colick, by the Crisis of an Earthquake.

bic descensus ad inferos olim esfe cresebatur. Gas Sylveftre.

* Avernus, Gr.

cedunt, ob te-

trum ejus odo.

rem: propter

quam graveo.

lentiam, etiam

Acevos, quo nulla aves ac-

> 9. That tince the Materiall cause of belching is a nimble Wild spirit, ariting for our Aliment, and far more subtil then a vapour; but yet doth never invade the Brain, unlesse, upon flutting the mouth, it chance to advance to the forepart of the head, through the funnell of the palat, and be thence exploded by the nostrils: assuredly, much lesse can vapours, that are more groffe and corporeal, ascend so high as to infingate themselves into all the narrow creeks and intricate

Cells of the brain.

To. That these volatile and fugitive spirits, the causers of ructation, are never carried in a direct path, up to the region of the brain; but in an oblique, leading through the organ of smelling: and therefore they never afford an odour, or become subject to the perception of the adoratory nerves, but when the mouth is shut, at the instant of their eruption; much lesse can a vapour from the stomack, by its own spontancous motion, arrive at the remotest closets of the brain.

II. That

tr. That though we condifiend, that Vapours, the material cause of Catarrhs, may in some degree arise up to the head, at least to the organ of smelling: yet can we not conceive, that this can happen, but when the mouth is shut; and so whoever gapeth, can never be infected with Defluxions, and by inference, to keep the mouth open, at the time of ructation, is a most easie and infallible precaution of the

generation of rheums.

12. That fince two bodies cannot so far rebell against the conserving Laws of Nature, as mutually to penetrate each the others dimensions, in one and the same place; and since the passage from the jawes up into the brain is exceeding narrow, oppleted (for there is no vacaity in those organs) barrocadoed above and so impervious (for our very breath, though violently compressed by stopping of the mouth and nostrils, cannot force open a way into the castle of the brain:) therefore cannot a vapour, arising from the stomack, approach the basis of the brain. By example, a Cane or hollow Inbe, that is closely luted in the upper orisice, held in an erect position over a steam of hot vapours, doth not admit them to ascend through its personation, by read

son of the Aer, wherewith it was before possessed.

would it not meet with any Plane or Concave, upon which it might, by Condenfation, be reunited into drops: and much leffe any part of fuch figure, which refembleth the head of an Alembick, or Pot-lid. But in the basis of the brain, whether we gratis allow a vapour to ascend, is a narrow place, called the Pelvis, or brain tunnell; which sendeth two small tubes, or outlets; toward the nostrils, and as many backs ward toward the neck. Which two posterior cavities onely could the ascendent vapour infinuate it self into; and those two are ever repleted with a muccous or viscid excrement, and perpetually, by a kind of guttulous distillation, discharge it down into the Palat, as the proper Emanstories or dreignes of the brain, destined to the evacuation of the slimy redundant humors. And therefore albeit we concede, that a valence would be supplied to the evacuation of the slimy redundant humors. And therefore albeit we concede, that a valence would be supplied to the evacuation of the slimy redundant humors.

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pour can ascend so high: yet neverthelesse can we find no

place for the Concretion of a Catarrh.

14. Should a vapour, if the exhalation of any such from the stomack be possible, ascend to high as this stender Tunnell of the brain; yea should it, in so small a place, be condensed into rheume, and that rheume drop downe again to gether with the Muccus, or indigenary excrement: yet would it prove of much lesse offence or danger, then that muccus, the ordinary excrement of the brain. All which the Shools themselves have by Anatomy discovered, and may (pleas them to suffer the easie trouble of a serious pensitation.) assured know to be inevitable: but, alas! they have eyes, and see not; they have ears, and, we may justly feare, they will not hear.

15. That although the material Cause of Rustation be the Gas of our aliment, and impregnated with the particular odour thereof: yet the vapour of any meat whatever is converted into no other, then an insipid and harmlesse Water. By example, let any slimy juice, or spitle be artissically distilled, in any vessel, by a most gentle heat, exactly proportioned to the same degree, which is in the stomack of a living man: yet, undoubtedly, shall you draw off nothing, but an insipid and thin Water, wholly devoyd of the least glutinosity; and lesse any salt, acid or sharp Catarrh.

16. That albeit the muccus, or phlegmatick excrement of the brain, fall down upon the jawes, and frequently introduceth various misaffections upon them, according to its various indispositions or deflexions from its natural conflictution: yet neither the matter, nor deflexion thereof can endure the reason of a Catarrh; no more then the Vrine, drop by drop trickling down from the kidneys into the bladder, ought to be esteemed a Catarrh. Wherefore, if this muccus, whether insipid, salt or sharp, whether shaid or thick, drops ping down upon those parts, which, as peculiar Emunecisies, are naturally ordained to the evacuation of it, may not be accounted a Catarrh, however evil Accidents it impresse upon those parts; so neither the urine, though it deprave the integrity of the bladder.

ous humor, or imaginary excrement, whose nativity and transmission are delivered to be by a manner, means, places, and voyages, naturally impossible, to be accounted a Catarrib?

18. If the Brain, while it enjoyeth the influence and irradiation of vital beat, be not actually cid: without doubt, the reason of the Condensation of vapours into rheume, must be staggered into an impossibility. But if it be, by some degrees, lesse but then the other parts of the body: must we then be driven upon this absurdity, that a vapour doth, as if endowed with sense and an arbitrary power of Election, enquire out and pitch upon the coldest part, as most accommodate to its suture reduction into a humor? because, by the dictates of naturall propensity, it rather desires by casquilation to be returned into its primitive, then by resolution to continue in the prese condition?

19. Or is it driven on by the crowd of other vapours, and on all sides recoyled from the botter parts of the body, up to the brain, as to the coldest? if so, there would be a continual tempest in the soundest bodies, and nought but Lepanto Gusts, and Catarrhs in the best temperd heads: which to believe, is a madnesse beyond the power of Hellebor, and a dotage too absurd to be excused by the largest candor.

20. But laying adde these Positions (which can, upon no necessity of nature, be verified) as worthy onely a short confutation; we come now to prove, that should all the demands of the schools, hitherto mentioned, be freely granted them: yet could they be of no advantage, as to the manifestation of the Cordinal point in controverse, viz. the manner, reasons, and wayes of the Design of Catarris.

21. For first these rivulets of rheume cannot make their progresse to the outward parts of the head, betwixt the skull and skin: since, indeed the Schools themselves declare, that Vapours, the Antecedent matter of Catarrhs, do mount up from the Stomack to the Basis, or lowest part of the brain, and there six upon a Plane (imaginary, nor ever yet discovered by any Anatomist) in whose lower superficies they

D 3 instantly

instantly enterprize condensation, and then, immediately after concretion, be rained down, like a malignant mill-dew, upon the members subjacent. Far distant, in sober truth, from this, that this forreigne adversary, this meer excrement, an obscure alien to the brain, and sole occasion of so many and incorrigible infirmities, having in the lowest Plane of the brain transformed it self into Water; should thence either penetrate through the very substance of the brain, in the grosse disguise of Water: or at length return again to invest it self in the thinner dresse of a vapour, and wantonly take up quarters in the forementioned Plane.

22. Not in the form of a vapour; for if a vapour flying up from the stomack, arive at the bottome of the brain, and by the native cold of that part be concreted (as they say) into Water: beyond all dispute, by reason of the same opportunity of cold, it will continue Water, nor ever in that place be reduced back into a vapour again; until Nature her self run mad, and fall upon contradictory operations, such as

shall out do the confusion of her primitive Chaos.

23. If therefore, this Vapour be once changed into Water, by the inevitable activity of local Cold, it is too hard for the most incircumspect credulity to be perswaded, that this Water, of knowne hostility against the native occonomy of the head, should be kindly invited, nay gredily drawne into the most secret and other wife inaccessible closets thereof: much leffe that it can attaine fo great thinneffe and subtility, as, notwithstanding the resistance and compressive endeavours of non admission made by the parts invaded, to pierce through the very body of the Brain, its Membranes, Sutures, Skull, and Perioftion, or coate environing the skull; then stop at the weaker counterscarfe of the skin, and there, begin its defluxion. And, beside many other inevitable absurdities, this Water can be at most but a kinde of Rain water; and therefore wholly unfit to be made a fource of vifeid Catarrbs, whose duration depends on their glutinostij: yea Catarrhs arising from this aqueous originall, would, upon the first accesse of heat, vanish by transpiration, sooner then the

the thinnest sweat; unlesse the Galenists can shew, how water made of vapours exhaled from the stomack, doth for ever after become fixed; as also, that by touching onely upon a certain Plane (which the diffecting knife hath never yet lighted upon) in the head, it doth acquire a falt and foarp eincture. Again, the skin furrounding the skull, being tar more rare and porous then the skull (through which it is allowed to passe, by transaction) must, according to the rules of probability, give way to the extermination of this, water, either by insensible transpiration, or by sweat, much fooner, then imprison it so closely, as to force it. by seeking other vents, to introduce those various maladies vulgarly imputed thereunto. To which we may adde, that the skin obtended upon the skull, doth most closely and tenas cioufly adhere unto it; nor can the fingle declivity of the place suffice to the diffusion of the rheume, and the violent avulsion of the skin from the bone. Moreover this Water, generated of vapours steaming from the stomack, ought, of unexcusable necessaty, to have some internal Pulsar, or Driver, to ram it through the substance of the brain, membranes, skull, and perioftion. But this driver must not be beat; for then would it cease to be Water, and in a moment, re-assume the consistence of a vapour: which is wildly imagined to be condensed into water, by the frigidity of the brain. Further, Catarrhs are observed to be most frequent in ald and infirm bodies, and Climates most infected with fold: Wherefore this driver, in all probability, must be Call, (which fober Philosophy affirmes to cause a Confirition and faitnesse in the parts) whose businesse is to protrude this water through the brain, and in footh in the groffe form of Water; contrary to the ordinary energy of naturall qualities. And this impulsive force must be either in the Water, bred of meer vapours fuming from the stomack; or in the brain, by which it is compelled, together with its membranes and skull, to open at the advent of this Water Finally, fince this kind of rain-water, made out of condensed vapours, is conceived to hang in pendulous manner on the

the lowest superficies of the basis of the brain; nor can be there deteined in any quantity above a drop or twain, at most (for the narrownesse of the Cavity forbids the admisfion of more) it must necessarily, either immediately fall downward in successive drops: or the brain must constantly play the spung, and imbibe it drop after drop, so fast as it is condensed. Moreover, this excrementitious Water ought to have, besides the forementioned Driver, a Conductor, which may diftend the skin, and in order to the generation of the Pleurisie cause an avulsion of the membrane lining the chest from the ribs, as an Harbinger to prepare a lodging for it: and as well this Conductor, as Driver, ought to be of far

more power then our own indigenary Blas.

24. I shall at length expose at any rate, to common sale, these impossures and delusive dreams of the Schools: that no man may, the vizard of vulgar credulity being at the same time detected, longer suffer by the unfortunate purchase of falle wares. Nor could I hitherto sufficiently admire, how the world could be fo groffely circumvented by the tradition of Catarrhy: in a bulinesse, I say, so foolish, vain, and altogether impossible, that men, the Charter of whose Creation doth entitle them to Reason, should thus prostitute their credultities to a Legend of Absurdities, nay absolute Impossibilities, and forfeit the dignity of their transcendent endowment upon the single feduction of onely one idle fault, namely Ignorance. That they upon their lazy and indirect disquisitions, not finding any Cause, on which to charge their large account of diseases, have imposed upon the implicite beliefe of vulgar heads, drowned in a deluge of flupidity, these ridiculous fictions of Catarrhs.

25. But the sweat, at least, is impregnated with a manifest saltne se; sipon which hint, the * Latex, or Fountain of ferous freams in the body, might with much more plaulible reason have been adopted to the generation of Rheume, as being a very convenient mother to own such a production: tus contendit, est them an imaginary vapour, which requires to be conducted idem aquo us li- through to many intentible ambages, and blind Meanders,

* Latex, apud Helmontium, qui humorum quaternarium adnibilare peniquer, quem fan-

and whose possibility of existence cannot be afferted, without the joynt concession of a thousand absurdities, and bold violations of the unalterable decrees of Nature. For the accustomed saltnesse of the latex, may bear the imputation of being the Cause of Pains and other erratick accidents, with neerer relation to verifimility; then an insipid Water, transmitted upwards from vapours, which have no real Idea, but in the distracted imaginations of either this Fable. Again, when this Water hath travelled through the Brain, Membranes, Skull, and Periostion, doth it then grow weary, feeble, and unable to continue on its progresse, and penetrate the easier perforations of the skin? or hath the former laborious pilgrimage so refracted its power of transudation, and impaired its memory, that it hath forgotten the way? Why doth the skin, which by reason of its numerous evaporatories, or capillary porofities, is ordained to transmit the groffer matter of fweat relift the tenuity of that Water, which hath fo nimbly run through the impervious skull? But should this Water be once colle-Eted into a pond, under the fealp; then would it either there swell

quini ubique per omne venofum genus arctissime affociatum, scholæ nominarunt Serum; illumque tam urinæ, quam sudoris pariter atque lachrymarum communem fecere materiam. De hoc peculiarem, et nostro quidem judicio sufficientem librum, cui inscriptio Latex Humor neglectus, panxit Helmont: quo plane oftendit, ingens ab ipla etiam natura positum effe, inter urinam & laticem, quem frequenter extravenato sanguini innatare cernimus, discrimen; tam quoad materiæ essentiam, quam usus utriusque five deftinationes. Scopos autem five fines, quibus inservire voluit Laticem, brevi verborum serie fic comprehen-I. Latex, ex sua natura pene insipidus. pro primo scopo habet, ut contemperet cruoris aciditatem, eandemque arceat ; et potissimum post labores, aftus, sudores perfusos, balnea, &c. name the Contrivers, or Abettors of intanta perspirabilitate cruor valde condensaretur, nist haberet aqueam partem admixtam pro sudore. 2. Cum in omni crudiori chylo, cremore, & cruore, sit aliquid excrementum; & cruor sub digerendo salem excrementitium reservet, etiam dum in purum alimentum convertitur : est ipsi proin Latex opportunus (scius, qui in se recipiat hunc salem, eumque everrat. 3. Ut materialiter causet, ne ullum densioris compaginis residuum, in ultima alimoniæ evaporatione remaneat: Sed fimul per Diapnæam explodatur, ratione Fermenti arterialis (ut Helmont in Blas Humano) vel ratione sudoris eluatur. Sudor namque materialiter. nil nisi Latex est, cui accessit Sal superfluus.4. Cum oculus liquore opus haberet, ut ejus palpebrainnocuè moveretur, o lingua saliva eguit, ut masticatos cibos madere temperaret; absurdumque foret, totum cibum è massa cruoris bum ctari : idcirco per venas Latex delatus eft unde saliva, lacryma, &c. fierent. Nam dum in Anginis, & infami Mercurif salivatione, plus justo saliva profluit, alvus confueto seccior evadit. Latex ergo in cruoris massa innoxius vagatur, ad loca opportuna defertur, diffributiva facultati prompte auscultans. 5. Quod fuo madore compescat, ne pulmo de hiscat, siccitate Ad ipsius autem Authoris libelaeris attracti. lum resurrent studiosi, ubi omnium de hoc themate uberiorem destrinam habebunt.

into a tumid Cataract, or be dreigned downward in a slender thread of successive drops: or were the collection about the temples, it would foon become subject to the discovery of our touch: and should it be rained down, yet could it not avoid to infer a manifest Tumer of insipid water, upon the terminus ad quem, or part recipient. And if in small quantity, it would soon be discussed by sweat. However, it can never fall down upon, nor be congregate amidst the Muscles; fince each of them is strongly guarded by the outwork of a particular croffe membrane, wherewith their fubstance is immediately covered. Besides, there is neither way for its defluxion from the head, betwixt the skin and periostion; nor place to entertain it amongst the intercostall Muscles, in order to the generation of a Pleurisie. For can that insipid Water, which occasioned no psin or molestation, while it remained under the skin and hair of the head, within few minuts after its arrivall at the intercostall Music cles kindle a violent Pleurife together with fuch intolerable torments; and onely by its descent and fingle gravity avell the Pleura, or lining of the thorax, from the ribs, which is firmly annexed and immediately adheres unto them by the mediatory ligation of numerous folid Fibers? Certainly, that immanity and tineture of implacable tyranny must be acquired from no other impregnation, then what may accrew unto it during its Defluxion. Toproceed, no Catarrh can descend upon the Teeth, or impeach their Nerves; which on either side from the basis of the brain are implanted into the mandible: fince they are so exactly proportioned to the diameter of their receptacles, and so entirely fill them up, that there can remain none the smalest cranny for the intrufion of one drop of rheume; and much the leffe for this, that Water cannot enter any small perforation, that is shut beneath. If so, unfeignedly, we have no weighty engagement lies upon our reason, to enforce assent; that this rheume should customarily fall foule and infest one single tooth, and fuch onely as is Carians, or hollowed by putrefaction. We shall add, that a Catarrh collected into a showre underneath the scalp, should, according to the vicinity and rectitude of conveyances, rather stream down upon the Cheeks, then the bottome of the Gums, through their fleshy Contexture, and perfishing non-incorporate to the blood, trace the impervious paths of the nerves, through the mandible, untill it in vade some one particular tooth. Yea though this phantaflick deluge might be allowed to drop down from above, and so be thought the cause of pain, in the supper jawe: yes no man can swallow so unsavory an absurdity, as that Water, not at all participant of vitality, can by any means, or at any time, infelt the lower. What if this vagabond rheume chance to decline towards the eyes, or ears? infooth, the malitious matter thereof must, from the conceited Plane of of the brain, first passe through the chief Ventricle thereof: and so in that royall place become a second and more fatall cataract; yea occasion suddain Death more probably, then an Ophthalmy, or bare inflammation of the eyes. Again, I Ophthalmia of well remember, that the feat of a Pleurifie is not betwixt the annate oculi tuskin, or externall membrane universally swathing the body, nice instanmaand the intercostall muscles (whither, notwithstanding, the de- acri, venulas ipfluxion might more directly stream down from the periosti- fins diffendente,

on, then toward the internall parts) but either in the very exorta. Confide fubliance of the oblique muscles; or between those and the practices. Pleura immediately enshrouding the Chest, from which part the disease hath desumed its denomination. By what sluces therefore can a defluxion be derived from the head unto this place? I grant, indeed, by way of supposition, that a certain Muccus, or phlegmatick and glutinous excrement, doth, even in Children and men of the soundest constitutions, slide down by the palat into the stomack: yet this stands in no relation at all to a Catarrb; nor is that muccus bred from that cried up vapour of the sirst concoction; but is an unprofitable Exercisent, begotten à Custode errante, *by the Guar-*Inaudita pri-

hath been clearly declared in convenient place.

fentiæ, Causa, modique siendi morborum, novis ejus in Physiologia theorematis melius accommodarentur, fabricata, baud insimum tenet locum hocce, de Custode Estante, ingenium. Ut

dian of the brain, seduced into a perversion of its office, as us Helmotijin-

E 2

autem

ter Paradoxa,

autem qu'am brevissime, & pro captu murginis, quid sibi voluit per Custodem, et quid per eundem errantem, explicemus; animadvertendum eft, quod Author, cum insignem aque cataractam è naribus, in principio Coryze (Frigus nurcuparunt rustici) ordinario efftuxisse cerneret; et uberrimum pariter Mucci proventum a pulmonibus tussiendo explosum: ut antiquatam, de Catarrho ex vaporibus in planum Cerebri delatis, codem in loco rufum concretis, atque dein tandem guttulative, partim per nervos olfactorios antrorfum, partim retrorfum per laryngem in exiles pulmonum tubos delabente, doct rinam pessum laret; Custodes duos, unum in Cerebro, alterum in Larynge, à sapiente reram Parente constitutos esse, affirmare ausus est. Priori in provinciam delegatum est, ut quoties Cerebrum ab externo aliquo malo lacestatum atque vitiatum fuerit, toties potestate sua alterativa, five transmutationis energia, mucilaginofum quoddam Excrementum, ex fanguine in substantiam Cerebri mox rite assimilando, vel (ut Helmontij verbis utar) ex totalitate Alimenti, priusquam aleret, fabricet; que, tanquam lorica, partes frigore perculsa circumtegantur & ab immani hoste sarta testaque conserventur. Atque hanc potestatem, Mucci hujus effectricem, Custodis etymo opportune quadrare, consentaneum eft. Alteri, Laryngis nimuum Præsidi, munus fere idem est; puta, ut quoties aeris inexcufabilis injuria partem utranque, i. e. Cerebrum & Pulmonem adoriatur, soties è Latice & Cruore crudiori, Muccum etiam quendam, tanquam vestem, sive interstitium objiciat; in quem aer ferociens, partim deposita primi ictus inclementia, mitescat. Quamdiu enim Custos recte valet, atrocitatie aërie victrix superat : dum verò ob perfractum robur, prima sua destinationi ex voto satisfacere nequit; saltem multum Mucci fabricat, ut conceptam eluat labem, quam primitits non fuit separando. Sed ah! ubi vel externa injuria major eft, quam que finat se sic detiniri; altiusve ferit ipsam laryngi aut pulmonum substantiam: jam titubat Custos. Nec solum desumit auxilium abs Latice, Sed ipsam proximi alimenti substantiam alienat, transmutatque in muccosam collam, unde Phihius mox sequitur.

I grant moreover, that in the Gout, and other confimilar diseases, frequently the guilt may be imputed unto a certain Salt excrementitions fream; fretting the parts affaulted : but of fuch, onely the Latex, or fource of aqueous feroiny in the body, is the Mint, Coment, and Supply; and not an ascent of vapours from the stomack into the brain, not a miscelany of non existent juices, nor a feigned Deffuxion of

Phlegme mixt with Choler.

26. For the Schools themselves, surrounded with same, that the Head, being on all sides brimsull of the brains, might be a Migazine for the collection of Catarrhs, and most Diseases charged upon their Desluxion; have (alack, and alas for wo) unjustly accused the stomack of continual smoaking with vapours, and so contributing matter to their production: but finding the stomack not-guilty in healthy men, yet presently, in the Gout, they incriminate upon a Defluxion, and as benighted in a dark milt of their shame, whisper out this false impeachment, nor adventure to speak it out, as alleaged from the testimony of positive knowledge. For they at first dash, steal the Question, borrow a kind of acrimonious Choler, and falt Phlegme from the simple treasury of the blood, and leave the controversie undecided: whether those Hamors are to be derived from the Liver, separated, by a kind of Critical percolation in the veins, from the remaining laudible maffe of blood, and so excluded and discharged upon the joynts; or whether a certain Water, tartareous Muccus, or other anonymous Excrement be transmitted thither from the head, underneath the skin. For yet they remain unrefolved; and are the more confounded in this, that they cannot manifelt, what this cunning Separator, or Winnower of various humors, blended together in one form and confistence; or what that Conductor should be, who should transport these humors severed from the blood, incontaminate with any alien tincture in so difficult a passage, where many more folid substances are to be penetrated, onely to the Conjunctures and Articulations: and now felect and pitch upon this, and anon upon another determinate part: but leave unimpaired the more feeble and supine, and every day make a fresh conquest and subdue some one new joynt; year invade that member, which is become more capable of resistance by Nodes and Oppilations. Whatever, therefore, the Schools dotingly prattle concerning vapours elevated from the stomack, and recondensed in the brain, as the material Cause of Catarrhs; let all passe for a Christmasse tale, or drunken Beldams dream.

27. For the flomack is never Cold below its native conve- digestivum, nient temper; indeed the Digestive Ferment* (to which, and eff proprietas

* Fermentum quædam effenti-

alis, consistens in vitali quadam Aciditate, ad transmutationes siborum in ventriculo potens ; ideaque & specifica proprietatis. Non est autem fermentum istud digestivum, in sola Aciditate aliquali fitum. Neque enim acetum, vel jus Citri farinam fermentat : imo nec farina fermentata proinde est fermentum stomachicum; sed boc est Acidum esurinum, stomachicum, specificum & humanum; ita quidem per fingulas brutorum species Specifice distinctum, quod ipsis sit appropriatum. Mures namque, Glires, & Sues citius fame pereunt, quam Phaseolum edant. In homine verd plerumque ad Generis amplitudinem affirat. Interim plures Caseum borrent, vinum. lac, vel alia spernunt; quia non conficiunt. Ideoque quecunque luctantur cum nostra digestione, obversantur Fermenti illius proprietati specificæ, fermentum que conculcare nituntur.

not to hear, the Faculty of Concoction ought immediately to be attributed; as we have in another tract concerning that particular Theme, to ample fatisfaction evinced) may fuffer Diminution: nor can the Liver ascend to an excessive Heat. above that constant degree of Vital flame, which first entitled it to Animation; for in severity of truth, there is no other heat in our bodies, but what was first kindled in our heart by that Vestal spark, or vital light, which immediately and solely constituteth the Essence of Life. And this the reason is, why every Carcase doth suddainly grow cold, as the heart of Winter, to foon as the Vital fi me is extinguilhed. *

* Princium istud Formale, cujus beneficio & munere Animalium Corpora, alioqui frigida, concalescunt, edendisque Vitx actionibus apta redduntur, non esse Calidum innatum, five Humidum primigenium insito |piritu & calore undique persusum, contra Aristotelem, ejusque anonunes, acerrime velitatur Author: tradens passim per suas lucubrationes, pro axiomate aterna veritatis; quod in cunctis viventibus insti Lumen quoddam Vitale, immediate de fontaliter à Patre Luminum (Formas enim rerum omnium immediate à Deo creari, serio docet, in Lib. de Formarum ortu) dimanans, cordique, dum adhuc esset in utero recens embryonatum, tanquam proprio conceptaculo implantatum, in quo Vita essentialites consistit, atque cujus marcor Senium, extinctio Mortem necessario infert. Inquit enim, de Vita solerter perorans; Vita est lumen & initium formale, quo res agit quod agere justa est. "Hoc autem lumen, a Creatore rebus infulum, datur unico instanti; prout à filice ignis "excutitur, sub forma identitate ac unitate clauditur, perque genera et species est distinctum. Non est autem lumen igneum, cumbustivum, humidi radicalis consumptivum. " in pisce vitale est, quam in Leone; tamque in papavere, quam pipere. Nec etiam in no-" bis deficit Calor, ob humidi radicalis emsumptionem : nec vicissim humidum deficit, Calo-😘 ris defectu ; sed sola duntaxat potestatum Vitalium, adeoque et luminis diminutione & ex-"tinctione. Fusiorem vero Argumenti hujus explicationem me legisse memini, in tract. Humidum radicale nuncupato; quersum benevolos, avidosque doctrina Helmontij ex instituto remittendos volui.

28. But the offensive Heat of the Liver belongs to it onely by Accident. For example, let a cold Thorne or needle be pricked into any mans finger (an instance frequently mentioned by me, and largely explained in my discourse of Fevers) and thereupon shall instantly ensue a violent Pulsation, occasioned by the pain, an angry Incalescence, and Tamor of the part. * Not because this Thorne is bot, nor that the blood then in vicinity to the wound had any immoderate offerwefones sanas: id- cence before the infixation of the thorne: but that excessive ipsum in morbis Arder is kindled upon the entrance of the thorne into the flesh.

* Quicquid in

the Liver; for if that at any time conceive an unnatural Articlas. Spiriture is for if that at any time conceive an unnatural Articlas. Spiriture is is caused by some Thorne, or forreigne impression the lefacit hominem which doth not indicate, in order to the extinction of that naturaliter in conflagration, any Refrigeration, but a total Ablation or sanitate, idem cradication of it. For Refrigeration of the Liver is so far qui in febribus from working even a bare palliative Cure of this Ardor, that estuate per eximinded it renders the mischief desperate, for the suture.

querra digito infexa, actuet potentialiter frigida, moxim digito excitat calorem prater naturam. Non quidem, quod calidi humores affluant, quasi per spiname occurrent extensions.

dem, quod salidi humores affluant, quasi per spinam eò convocati, expedassent spinæ vulnus, er qui alsas suis sedibus temperatis edissent. Siquidem cruor vulneri proximus, primus accurrit, aditum venienti cruori præripit. Et ipse per se quoque non calet: Sed ex gratia vitalis spiritus. Itaque instammatio, er tumor cum pulsu duro, dolore, er calore, à solo spiritu causalitèr; ab institu verò spina occasionaliter duntaxat procedunt. Helm. de Febr. cap. 1.

29. And this, I earnestly wish, the Schools may be pleased soberly to observe; as also their vain and impossible figment of the Heat of the Liver, and the manifold Errors in their Method of Sanation, all streaming from this fountain. May they feriously observe also, how barren and unsuccesseful all fuch Remedies have proved, which have been directed (with grief I speak it) to the Head, Swanack, and Liver, for the Cure of Catarrhs. Manifest therefore it is, that a Catarrh bath, in nature, neither Material Caufe for its Generation, Place for its Conception, Conduiets for its Traduction, Receptaries for its customary Admission, nor sufficient activity to make good its Penetration through the substance of the brain, Membranes, Shull, and Periostion. For where in all this admirable Fabrick of the body can we find, that Nature (whose Providence can be found no way deficient) hath built any house of office. or closestool, meerly for the reception of Preternatural Ex crements: nor can it stand with the lawes of verifimility, that a meer excrement generated in any part, should be endowed with an Arbitrary Power to transplant itselfe at pleasure from one place to another. And upon the concession of the doctrine of rheumes, the Trepan would every day, be of as much use for the letting out of Catarrhs, as to give vent to the Purulent Effuxions of wounds in the head.

30. But why should a Catarrh cease to flow downwards. immediately after the Tooth, which aked, is pulled out? whither because it hath so soon forgotten its way thither? And if the matter thereof be originally transmitted from below, whither, I beseech you, in relation to its natural Tendencie, should it then run? or upon what new part shall that ancient rivulet of rheume be diverted, which constantly used to creep into the channel of the teeth, and infinuate it selfe through those slender perforations, which the Nerves, aswell within, as without, above as below, entirely possesse and fill up? Doth the stomack, forfooth, cease, or not dare to continue the exhalation of vapours, and the communication of the fuell for Catarrhs, after the drawing of a tooth? or doth the whole store of rheume, yea such as shall be generated in the future, flow forth together with the blood, at the instant of the tooths evulsion? or upon the generation of slesh in the mertice of the drawn tooth, and so the cutting off all way of effusion, doth the Catarrh dry up? But sure the Catarrh could not attempt a passage through the rocky and impenetrable substance of the tooth? If not; what hindred it from swelling, by restagnation, into a necessary Apostem in the parts adjacent? why doth it frequently, when one tooth is pulled out, find a new channel and drive against another? Doth the evultion of the first tooth turne the course of the Aream upon the feeond? Doth the conductor of the rheum grow blind, and can no longer find its way to the remaining nerve of the drawn teeth, or at least to the carnous excrescence that succeeds the tooth? or can it with more ease drill a hole through a fecond firme tooth, then passe the spongy flesh that ariseth upon the ejectment of the former? why can it not constantly keep possession of that Gurrent which it self digged? And so conferve an outlet for it felfe, before the new tenant of flesh take livery and seisen? Miserably, infooth, is this rheum deluded by the Chirurgeon, which thinking, according to its custome, to invade some one Tooth, and finding it removed, must be constrained to return back, by the same way it came, and execute its malice upon some more

more noble part; which it torments, in revenge of the affront done by the Chirurgeon. No tooth, therefore, therefore, therefore, therefore, the by reason of a Defluxion: but because, upon a detection of the Gum, it becomes too sensile; or that, in another case, the matter of its ultimate or most depurated Aliment, being defectively assimilated, conceives putrefaction at the root of the tooth: and hence that intolerable Paine. 31. For the Digestion of the Teeth and Nayls is distinct from the Digestion of all other parts, in this particular; that the Digestion of those is performed in domestick vessels, or the very interior substance of each particular part; but of these in vessels onely contigue

ous to their rosts.

32. But that no Catarrh can fall down upon the Inwards, the Stomack, Lungs, Liver, Kidneys, &c. is in part already manifested, from that generall evidence alleaged against the possibility of its material Cause, waies of transportation, and manner of production: and may, in part, be evinced from this, that nothing can fall down upon the Palat, much lesse into the Stomack, contrary to our will, but what may instantly be ejected by exfcreation. For we never swallow down the naturall Aduccus, ordinarily dropping from the head upon the root of the tongue; but unawares: nor is any Catarrh so far participant of the power of election, as cunningly to lie in ambush, till we are lockt up in the arms of fleep, and then affault us when we are unfit to endeavour its evacuation. May all Fables, and Dreams of impossibilities be henceforth utterly exiled from the Confines of the facred Art of Healing.

33. Whatfoever, therefore, is distilled from the head upon the jawes; is the Muceus, or ordinary excrement of the brain, either in its natural and due constitution: or altered from it, into various irregularities, respective to the indispositions of the Custos, or Prasident of those parts. But this Muceus is, in totality of essence, distinct from that Excrement, expectorated from the Lungs, by Cough. And then, what means this rash inadvertency of the Schools, when they direct, that, by exact inspection, we examine the spitle

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by Cough, whether it be matery, frothy, diaphanous, liquid, white, concreted, yellow, ash-coloured, or tawny? whether round, globular, of a confistence at for impetueus defluxion? To what purpole, say I, doe they command us to make our augurie and explorations of the Diseases of the Chest and Lungs; if, as themselves opinion, those excrements we spit up, be Catarrhs, and originally derived from the head? For to a rheum, following upon some constipation of the or Ethmoides, or spongy bone, by the Muceus ordinarily descending into the nostrils; would be diluted with a crude and aqueous Muccus; for this cause, that provident Nature would hither fend a plentifull torrent of the Laten for the ablution of that, whose thicknesse and viscidity caused the obstruction. And if the material cause hereof be primitively deduced from the flomack; why, when the spongy bone is obstructed, doth the stomack of a man perfectly in health, grow outragious, play the tyrant, and oppresse the brain with too great a charge of vapours? How can those vapors, when condensed above the palate, arrive at the odoratorie Nerves, feated in the forehead, and there put on the form of a fall water, to wash and rince away the obstruction from the fongie bone? From whence can vapours, of their own nature, insipid and barmlesse; in their short passage only acquire so much sale; which they should melt and precipitate downwards together with themselves, and, by this new acrimonious impragnation, introduce frequent squinancies, and other inflammations of the throat and jawes? ¶ 34. Why doth this rheum, elevated formerly from the stomack, and by no other transmutation, but only a bare Condensa.

34. Why doth this rheum, elevated formerly from the stimack, and by no other transmutation, but only a bare Condensation into water (which is demonstrated, by the mechanick experiments of Pyrotechny, to be necessarily insipid and gentle) changed from its primitive consistence of a vapour; when once it falleth upon the stomack, occasion so many and grievous mischiefs therein: which yet not long before, during its commixture with other parts of the Chyle, was grateful and beneficial to the same? Whence can it obtain this Hostility? What, from the Brain, one of the most noble parts

parts of the body, and richly endowed with vitall principles? And if this Vapour hath only touched upon the lowest Plane of the brain (as themselves affirme) and instantly fall down from thence, so soon, as it multiplies up to the quantity of one single drop; and fince no third place can be found, to deteine each successive drop: therefore can this perversity, or evill tincture, arise unto this rheum, neither from the momentany stay in the plane of the brain, nor from the Contagion of any malignant part, nor finally from any seminality or infusion of depravity received from thence. Unlesse, perchance, they shall be able to give in evidence, that, besides the bare condensation of the vapour into rheum, there intervened some Third causality, from which the Acrimony, saltnesse, and virulency of the Defluxion was derived: which hitherto

they have neglected to prove.

35. But fince the numerous Comments, concerning Catarrhs and Pulmonary maladies, have grown up into huge Volumes, Councels, and Dispensatories: I conceive it my proper businesse to declare, that no theory of the Schools was ever more full of negligence, absurdity and danger, then this of Defluxions; on this account, that hitherto they have esteemed no sinne more veniall, then Homicide, committed out of incogicancy and circumspection; provided that the earth cover over their Crimes, and they become excused of murder upon the allegation of some Axiomes of vulgar tradition. And hence, amids my compassionate meditations, have I thought, that the Devil * Moloch fits Doctor of the Chair, "Confue caand hath down to our daies infatuated the world with the whimsey of Catarrhs. Whose materiall Cause, Nativity, Dom. Selden. de Place of conception, Efficient, manner of Generation, re- dis Syris syntage. ceptary, progreffe, and collection, are equally unwarrantable 2. cap. 14. by truth, because absolutely impossible in nature. These abfurd doctrines therefore none hath broached and promulgated, but the old Serpent, the Father of lies; with defigne to depopulate Humanity. For whatever distils from the head is the native Muccus and pure Excrement of the brain, generated within its proper confines; and no forreigner brought in from the stomack.

36. This Muccus, is constantly white, thick, viscid and inmonitom; while the Custor, or Lord President of the head, continues sober, well disposed, and conformes its dominion to
the wholsome Statutes of its primitive trust: but when it
degenerates into exorbitancies, and irregular operations,
and the powers committed to its administration are perverted into abuses; then doth the Muccus grow unnaturall,
wild, watery, acute, salt, sharp, yellow, tenacious, &c. and like a
virulent torrent, shower down upon the palate from the
funnel of the brain, by the most convenient and obvious

floodgate.

37. For that matter, which in the beginning of a cold, or pose in the head, trickles down in the form of a thin water, is not fimply and meerly the muceus: but falt Latex, wherewith nature endeavours to rince away that excrementitious Phlegme, which, as a forraine adversary, hath encroached upon the spongie bone, bordering upon the brain, and obstructed its fluices; as I have already hinted. Nor is that matter, which comes yellow and viscid, in the declination or exit of a Cold, the same with the first Latex, nor any the smallest measure of time deteined and inspissated in the same place; (as the Schools notwithstanding confidently teach) fince if so, the whole cavity of the skull, though all the brains were taken out, would not suffice to the reception of To vast a quantity of Excrement: but this new kind of Mucem is freshly created every successive moment, and differs from the naturall and bealthy Muccus, in diversity of colour, stinke, viscidity, and aerimony. Besides, its ridiculous to apprehend this putrid Muccus, under the notion of an excrement well concocted and inspissated out of the former Laten; which is accidentally advenient, preternaturall, and depends upon a forrein vitious causality. Now, that the Latex makes the first stood in a cold, is manifest from this observation; that alwaies, for two daies, in every cold, the belly is more flow in the exclusion of its excrements, and the quantity of urine much diminished: which clearly evinceth that the Salt current is in part diverted upon the brain. Again, this

Later

Latex evaporated in a convenient vessell, by a gentle heat, containeth nothing in its confistence, that can be inspissated into a thicknesse equall to that of the Muccus: but how much of the Muccin, the Latex shall dilute, and rince away from the spongy bone, by its thinner stream; exactly so much, and no more of a mucilage, or glutinous substance,

may be found in it. T

38. But however it be, and whatever that be which flides down from the Brain upon the Palate and root of the tongue: yet cannot the least single drop thereof enter into the Lungs, but before it descend so low, it must endanger the life by suffication. For if one drop of liquor, slipping * Had we said down the aspera Arteria or Wind pipe unawares, whilit we croffe fate, the are drinking, threaten the deplorable Fate of Anacraon *: Epithite had -what would not so great a quantity of rheume, as is frequent been more gely rejected by Cough, even to the filling of severall basons in a very short time, doe as to the inference of suffication? hinted the And far from the fober and rationall waies of Probability preposterous must his credulity wander, who can submit to a perswasion, rarity. For that the sleep of a few short houres can insensibly convey whole basons full of rheume into the Lungs; and that so impetuous a flood of Phlegme can run down through the was it, for the narrow chink of the Epiglottin, or Flap of the Larina, with invincible ftuout the manifest hazzard of præfocation. In the daies of pidity of a yore I ingeniously confesse, being deluded by the sophistry of the schools, during my pedantisme and credulous pupil- ration; and a lage, I disposed my patients, afflicted with affections of the volatile muse Lungs, into such a posture, as that laying their faces down. to be condenward upon their pillows, they might sleep in a prone position; with defigne, that the rheume (for footh) might run out by by the spright the Noftrils, which would otherwise have flowed into the ly fruit of the Lungs: and upon this score, I promised immunity from the Vine, the same perill of Defluxions. But the following morne derided my Inspirer, whose ignorance and folly, with an argument borrowed from the had so often constant perseverance of the Cough and exscreation of rheum. warmed and For then did I discover, that an Orthopnea, or extreame dif- exalted her to ficulty of Respiration, which constrains men to fetch their the sublimity breath of rapture?

more clearly how unusuall from his inspifed into eternall dulnesse,

breath in an erect posture, put but a slight valew upon the doctrine of Catarrhs, and amply convinced it as frivilous and inconsistent with truth. Since I observed many to be strangled in that prone and horizontall position; which yet was, with great gravity and considence, prescribed by the Schools, as the only barracado, or damm, to intercept the antecedent matter of the Catarrh. Upon which observation I first built this justifiable position; that every particular member of the body, once disiffected, doth forge and coyne a very great quantity not onely of its natural and ordinary excre-

ment; but also of new, alien, and adverse.

39. Thus from the eyes, according to the variety of their disaffections, trickle down continued rills of a purulent efflue xion, or of falt and corrofive tears, let forth without the key of paffion: and when the Throat is blockt up by a squinaney, there continually hangs downe a rope of viscid Phlegme from the tongue. And upon this root grew that branch of my judgement; that the Lungs are equally subject to the same law, with other members. So that as often as they are affauled, irritated, injured, wounded, oppressed, or tainted by any inquination of the der, or contagion of malignant vapours beliched from the sulphureous and bituminous bowels of Mines: so often must they produce various restimonis als of their present langour, upon the credit of their own irregularities; and not that, upon any such occasion, those fo destructive and venenate excrements can fall insensibly from the brain (whose integrity of constitution remains, for the most part, in such Cases, inviolate) and be received amongst the slender Conduits of the Windpipe. And hence grew my Wonder also, how the Schools could observe, that the matter running from the nostrils, in a fold, did in the declination or Catastrophe much degenerate from what it was in the Prologue and first act; and imitate the proper and ordinary excrement of the brain: and yet, at the same time, not discover; that the same perversion or abuse of power lay in Common to the Lungs, as well as to other members of the body. According to their rule, whatever is avoyded from

he Lungs, must be fathered upon the brain, must thence fall downe insensibly (ridiculous) into the Windpipe, there, by a certain pepasmus, * or maturation, be stewed into a confistence more sit for its future exantlation, and all that while be lodged in the small-bored pipes of the Lungs, without rum prater nacausing any intense Anbelation, or difficulty of breathing. turam, morbos When (alas) it can escape the observation of no man, that efficientium ana far greater quantity of matter is frequently expectorated by Cough, in diseases of the Lungs, in the space of one moneth, then the whole cavity of the Chest can conteine. mam; ut mely, Upon which consideration, we are bold to affirme, That the eft naturalium yellow, asbcoloured, and fulsom spittle of men in Consumtions, are errors of the Custos, or President of Vegetation in the Lungs, and materially the blood, degenerated into a white, yellow, stinking excrement; * which being thus exhaulted, there must of neces- * Custos, qui fity ensue an Atrophy, or universal Famine in the body.

* 11 ETUG 105, Maturatio: ita dicitur bumoλοίωσις; quafique Alteratio in meliorem forconcoctio. vide Hippocrat. & Galen. in epidemiis,

laryngi & pulmon bus præli-

det, ubi semel insanit, rectoque justitia de tramite deviat, nedum humorem aquosum è venis advocat sui in auxilium; ast etiam ipsam alimenti proximi substantiam exhaurit, corrumpit, et in muccum infamem transmutat : tautò viz. visceria alimento proximiorem, quantò altins ad colorem ex flavo rutilantem, & rubedini vicinius accessent; reditade ab illo lapsu in pristinum, dum à rufo ad stavedinem paleæ, atque inde demum ad albuminu ovi similitudinem proprius appropinquarit. Hine vice versa, in Hecticis cruentus evadit muccus, et cinerum obscurorum colorem assumit: dum ipsamet alimenti substantia abscedit transmutata, desicientemque ibidem vite integritatem pandit. Tunc nimirum fætidus cadaveris incipientis oder in anhelitu, deliquia prodit Archei Pulmonarij. Sed hac ad mentem Helmontij.

40. Unsuccessefull, therefore, and deplorable are the Prescriptions of Cephalick remedies, in diseases of the Lungs; vain are the drinks of cooling Ptisans, vain are Lambatives, Syrups, and whatever else is swallowed down into the stomack: as such that must suffer a Cafration of their virtues in their tedious journey, and undergo many formal transmutas tions, before they arrive at the part affected.

41. And what can smell more of the Fool, then to give Decoctions of the Indian Roots, to dry up rheums? for how can China, Zarza, or Guajacum conduce to exsiccation, when drank in a liquid forme? What can they dry up, which would not be more pernicious and desperate when dried up, then it could be in the more harmeleffe confishence of a Liquor?

42. Why are such things referred to Exfrecation; which, in the policy of reason, want onely some inhibitive Course to prevent their Causation: and when they are stolne into existence, require not an evaporation of their liquid and fugitive parts; but an entire ejection and eradication of their whole? Why do the Schools, in most of their disquisitions, look onely open the effects and obvious Exteriors: and never pursue their search back to the Causes and more remote Proto-principles? What though these forreigne and barbarous drugs procure a general sweat, and so diminish the requifite quantity of the Laten, to the great and almost irreparable detriment of the Patient: do they therefore strike at the root of the disease, and destroy the Cardinal efficient thereof? while by a spare diet, and plentifull speats, they first diminish the necessary measure of blood; and secondarily cause an unavoydable leannesse of the whole body. All which the Schools have drawne into practice, upon the designe of exficcation of superfluities; wildly imagining to comprehend, the competent quantity of blood, Generation of the exotick Excrement, and easie Expulsion of the same, under the fingle fynonyma of Exficcation. But (alas) will the radical indisposition of the Lungs be hereby redified? will the Transforming Vulcan, or Frantick Custos, which doth there covne loathsome and consumptive Excrements out of the laudable blood, be by this ineffective means subdued, Julied afleep, weakned, and reduced to its primitive fobriety, and convenient administration of its power? which enraged Vulcan doth never, no not when the fick are emaciated to living skeletons, remit or discontinue the execution of its fury. Turne from us, oh thou foul of goodnesse! that deplorable Calamity, which the fortish Sanhedrim of Pagans, and herd of blind Doradnes, pretending to the facred mysteries of Physick, which more study their own gains, then the fafety of their afflicted brother, havedrawne upon all Christendom.

43. The Cardinall point of the Cure lyes onely in this; that the irregular and erroneous impression (which I call, the

Factor

Factor of corruption, or Vulcan, resident in the Lungs) be expunged and eradicated. For thats the only Publican, which by an unsupportable Excise, impoverisheth the whole Common-wealth of the body, and makes nature bankrupt, by exhausting the stock of aliment from the membranes, veines, Cartilages of the Windpipe, and all the substance of the Lungs; and converting the same into fordid and ulcerous excrements, which are continually pumpt up by Gough. But if there hath preceded an eruption of blood in any velfell of the lungs, if the matter expectorated be fanguine, and the disease hath proceeded to an ulcer; In such a case, learn the right confection of such admirable Medicaments, wherewith Paracellus was wont to cure the Consumption. For those, since being taken inwardly they cure even a Cancer or any other correding malignant Ulcer, have more then a pretence to the cure of Ulcers in the Lungs: And if any medicament drank down into the stomack, doe a cure of an ulcer in the thigh or foot: why should it not doe the same in the Lungs? But what will the Schools doe? they continue ignorant of the Causes, ignorant of the Remedies, and wavering twixt negligence and uncertainty, suspend all further enquiry; and yet confidently cry down the use of Mercury diaphoretick, fixed into a sweetnesse equal to that of Hony; and the volatile Tincture of Lilium a: as also the Tinctura Para-Milke or Element of Pearle b.

celli ex stibio.

Nam alcool stibii in clauso reverberio detinebat per mensem, ut evaderet leve, & volaticum, prime album, inde luteum, ex quo rubrum, & tandem violaceum (quod Lifium Antiquorum alii nuncupant) ex quo, per vini spiritus ad xx. digitos affusos, tineturam extrahebat, separatoque postliminio spiritu, Nobilissimam Lilii Essentiam paratam esse dicebat, in omni morbo præstantissimam. Arcani hujus præparationem Paracelsus hausisse videtur ex libris Basilii Valentini Monachi, de Antimonio; qui extarunt ante plusquam 200 annos. Lac live Elementum Perlarum fit, cum Margarita in lacteum querdam cremorem (ex que prius concrevisse meritò credantur) repetitis multeties solutionibus, liquoris solutivi evaporationibus, & spiritus vitrioli affusione, dissolvuntur. Cum autem Helmontius, ne porcia uniones projectife videatur, ej usmodi artificium coram mundo propalare recuset ; letteri, potissimum cui Hermetis adyta intrasse nondum contigit gratum fore duximus, si rectum ac minime laboriesum conficiendi Lac Margaritacum modum, pagina bujus margini inseramus, parcâ verborum serie. Margaritas, in porphyrite in farinam feu lævorem tritas, mitte in cucurbitam. Affunde menstruum acutum solvens (puta succum Limonum) ut duobus digitis excedat. Claude vitrum exacté. Colloca in cineres calentes, ut solvantur Perla. Si una vice id non sit, muta menstruum; donce tota substantia delituerit. Solutiones distilla ad siccum. Assuma aquam stillatitiam dulcem. Macera: distilla; quod ter repete, aut donce acrimenia abierit. Calc: buic ossuma optimum ex malvatico vino spiritum. Digere, distilla blande. Redde alium: digere, distilla, idque repete donce oleositas spiritus Perlas in oleum mutaverit. Quod cum novo spiritu digerere, es per alembicum extrahere queas, tandemque abstracto spiritu, per se dare. Si Tabulas vis cape quantum vis: assuma spiritum virivoli, es siet Lac. Ex boc secedet Calx candida. Abstrabe humorem. Es cum sacchari Chrystallini q s. aqua rosacea soluti, sac Tabulas Perlatas.

For unlesse the whole body throughout be tinged or bedewed with some supereminent Balsam; seldome or never are internal ulcers brought to Consolidation. And the Lungs, being a part that first submitteth to old age and death, can very hardly make a safe retreat back to their primitive strength, when once assaulted by any strong infirmity, the Forlorne hope of Death: but having their forces once routed, easily resigne to the tyranny of the Conqueror; and therefore seldom receive any recruit or assistance from Com-

mon remedies.

44. Upon the reputation of which reason, hath the antique errour of the Schools (who, sooner then they will be brought to acknowledge any deficiency in their blew and invalid Medicaments, are ready to impeach Nature herselfe of imperfection, and transfer the blame upon the most glorious Author of Nature, by implicit acculing him of improvidence and drowsie omission) succeeded even down to our daies. They politively affirm (forfooth) that the four lobes of the lungs are, during life, unceffantly expanded and co mpressed, by a short vicissitude of contrary motions, like a paire of Bellows, for the use of Respiration, so that the Aer inspired, is drawn only into the Lungs, but passeth no further into the cavity of the Chest. Which opinion, truely, hath been of bloody disadvantage in the method of healing: though at the same time, it served the Schools of Physicis ans for a weake san Quary, and childish evasion. For upon the incessant and inexcusable necessity of the Dilatation and Constriction of the lungs, or perpetuall motion of their substance, have they endeavoured to contrive an excuse for their practice: which leaves all Ulcers of the lungs, all Con-

Sumptions,

umptions &c. as desperate, and beyond the art of Asculapius. Well a day, as if they could cure an ulcerous inveterate Caneer, or quiet Fistula of the Anus, or eyes, at pleasure! Which

Error I thus encounter. ¶

45. In the Aer, there perpetually faile up and down whole Clouds of dust atomized; and therefore, by a continual! necessity, together with our breath we suck in whole fwarms of these dusty atomes: and by consequence, the whole cavity of the Chest would in a very short time be filled with dirt, it nature had not provided us of lungs, in whose narrow Meanders, and almost impervious porosities, these Atomes of Dust might be stopt and hindered from further advance. And in this relation, the Lungs have no other way of discharging their excrements, but by Exscreation; that the dust drawn in together with the Aer, might be pumpt out of the Pipes of the Lungs, at the same instant the ordinary excrements of the chest are avoyded. Ause, indeed, which hath hitherto layne obscure and neglected by the Schools; who have unanimously denied the Lungs to be pervious. The haire, indeed, wherewith the nostrils are fringed, like a net, catcheth all the small fibres or threds of Atomes flying in the aer, and hinders their further ingresse: and the numerous folds, and annulary Cartilages of the Aspera Arteria, are like so many labyrinths to arrest and fix the finer dust, that it finke not to the bottome of the Lungs. In order to our proofe, That the Lungs are immove. able, we have a very sufficient argument from the forementioned use of them: and not onely that, but further allo, that the substance of the Lungs is uncapable of Expansion and Confriction. And therefore the Lungs of Birds (lerving to the same common use of respiration, as well in them, as us) in regard they are, by many visible fibres, closely annexed and chained to the ribs, cannot by successive or reciprocall Dilatation and Confriction, make up the comparison of a pair of bellows. Again; the whole fabrick of the Lungs consisteth of three large vessels, or tubes, equally dispersed through the whole (viz. the Arterial Vein , the Venall Artery , and Alpera

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Aspera Arteria, or Windpipe) of a sanguine Parenchymes, or blood concreted into a folid maffe; and a peculiar Membrane, or scarfe enthrowding all the rest. Now the three Vessels are Canals or Conduits, equally divaricated and distributed through their whole substance; and the two former are ever repleted with blood, and therefore absolutely impossible it is for them to receive in any of the Aer drawn in by inspiration: but the third is ever open, filled with Aer, and so incapable of any new inspired aer, untill the aer drawn in at the last dilatation of the Chest, be first discharged down into the capacity of the Cheft; for which reason, undoubtedly the aspera arteria, as also the Membrane enshrowding the Lungs, are full of small perforations. For this third Canale, confifting also of Cartilagineous or griftly rings, made contiguous each to other, by the intervention of a horny membrane, is ever diffended and open; no otherwise then the main trunk of the Windpipe. The fourth part of the Lungs, is their parenchymatick Flesh, altogether as incapable to admit the advenient Aer. To conclude, the fifth part is a membrane, serving as a Coat to invest the whole structure. This summ'd up and considered, the result must be; that no part of the Lungs bath any room to entertaine any of the smallest parcell of the Aer brought in by inspiration : and that no part of them can, without violence and the dilaceration of their substance, endure the reciprocal motion of Dilatation and Constriction. A miracle it is to me, I professe, that the Schools, notwithstanding the uncontroulable evidence of this verity, can yet mort in their inveterate Lethargy: that though they stand convinced, and allow of all our allegations, as true beyond all Scepticity; yet doe they not, even to this very day, cease to preach up their absurd opinion, that the Lungs are continually, by a reciprocation of contrary motions, like those of a paire of bellows, distended and recompressed. Again, the third of these vessels, or forementioned Tubes (though we should grant it not to be continually repleted with aer, but an absolute vacuity, unpossessed by any aer at all) in respiration (when yet it re-

E.

mains open at all times, nor can the fides thereof meet together by cancidence, like a bladder, the cartilagineous rings forbidding it) can receive onely such a proportion of new aer, as may respond to its capacity; but fince an every inspiration we draw in so much aer, as must fill a larger capacity, then the dimensions of the whole Lungs can be extended unto: it feems of undeniable necessity, that the aer is not inspired onely into the pipes of the Aspera Arteria, of them, selves uncapable of constriction and dilatation, but is care ried further down, even into the cavity of the Chest. For a close, when any man hath received a wound with a dagger or poyniard, through the intercostal muscles; tis discernable with half an eye, whether or no the stab hath per netrated into the cavity of the Chest: for if yea, then is the aer, upon constriction of the Chest, exploded by the orifice of the wound in so strong a stream, that it will blow out the flame of a candle at considerable distance; which could not stand with possibility, if the aer attracted by inspiration did not passe through the Lungs into the cavity of the Chest. And the Consequence of this is, that the Lungs have no motion at all. A principal Argument, for the illustration of this paradox, is, that in the breast is seated a double membrane, perpendicularly interfeding the cavity thersof, from the neck down to the midrife, and therefore called the Mediastinum, or partition wall, provided by nature to guard the heart from the injuries of aer. This Mediastinum divides the cavity of the Chest into a right and left. Now manifest is, upon the conviction of the former experiment, that the aer suckt in by inspiration, is drawne directly downe into the cavity of the Cheft; as also that the Lungs are, for the same reason, devoyd of all motion. A second Argument, no lesse obvious or satisfactory, may be collected from the purulent expectorations in Pleurifies. For in these discases are ever rejected by cough such excrements, as were first generated of blood extravenated and putrified, in the parts adjacent to the ribs, and membrane enthrowding the hollow

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hollow of the Chest: and therefore it is of necessity, that the coat of the Lungs must be full of considerable perosities, or perforations, which suffice to the easie transmission of blood and thick purulent matter. All these things the Schools see, know, confesse, and write of: and yet are so effronted by cultome, that they adventure to deny, that the aerattra-Eted by inspiration, is carried through the Lungs down into the hollow of the Chest; but affirme that the substance of the Lungs is perpetually agitated, twixt expansion and compression, like a pair of bellows. They concede, indeed, that the Lungs have many pores or small perforations, through which the extravenated blood and apostemated matter in Pleurifies are imbibed and spungd up: but will by no means grant, that the more subtile and penetrative Aer can be transmitted through those pores into the cavity of the Chest. Nor is there, why we should wonder at this obstinate infatuation; lince they speculate onely dead bodies, in which the pores of the membrane investing the Lungs are closed up by the condensing hand of death: and the same constantly happens in the optick Nerves, the spinal marrow, interstice or midle partition of the heart, and orifices of the mesaraick veins looking into the guts. The Lungs of any beast float upon the water, while they are boyling whole, but minced into small gobbets, they presently sink to the bottom: the reason belongs to the impletion of the Aspera arteria with aer. And if boyling water (pardon us the impertinency) cannot find accesse into the substance of the Lungs, while they are decocted; which way (we befeech you) can the groffer matter of a frigid Catarrh hope to force an entrance into it, at pleasure? The same is also demonstrable by an experiment, as easily made as mentioned. Let any man, by a strong efflation, breath out all the aer in his cheft, as much as possibly he can; then with a ribon measure the circumference of his body, neer the point of the swerdlike Cartilage, above the pit of the stomack: and again. by as strong inflation, fill his breast with aer, and measure it the second time, and he shall find, by comparing the diffe-

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rent measures, that more aer is attracted into the chest by inspiration, then can be conteined in the dimensions of the Lungs. And much more, when he shall allow for that proportion of aer which tending directly downwards, depresent the midrife upon the stomack. Try the same experiment, another way; draw in so much breath, as you can; then blow it immediately forth into a bladder, and you shall finde, as before, that the quantity of aer inspired doth by many degrees exceed the mignitude of the Lungs. But in the mean time, be pleased to remember, that all the smaller tubes of the rough Arterie, as well as the upermost large canale, remain constantly wide open, as being distended by their Annulary Catilages, and must therefore be repleted with Aer, fince nature and an absolute vacuity are incompatible. No doubt, but the belly and breast owe their insumescence to the inspiration of aer; if therefore the Lungs were capable of dittention (which yet seems to us impossible) yet could they not be distended to a capacity sufficient to admit the tenth part of that aer, which the Thorax upon inspiration doth ordinarily receive; allowing for that aer, which doth depresse the midrife downwards, and remain in the ever distended pipes of the rough Arterie, in avoydance of vacuity. By inference therefore, the motion of the Thorax doth argue the motion of the Lungs unnecessary. Should we grant, that the Lungs could fill the whole cavity of the cheft (which the most impudent ignorance dares not affert) then would it found concordant to reasen, that the elevation of the ribs should dilate the Lungme that since the aer, by the laws of its constitution, is subject the Dilatation and Compression (as common Philosophy phrasethit) therefore could not the elevation of the ribs draw in a sufficient quantity of aer. Yea, fince that attraction cannot but be violent (as being a sbift Nature is put upon, for the prevention of a vacuum) i.e. è diametro adverse to naturall and vital motion: it follows, that the motion of the ribs is not ordeined nor conductive to the dilatation of the Lungs. And fince the Lungs have, neither in themselves, nor by insusion from any other

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part, any principle or Causalitie of peculiar Metion; other then that dependent on the motion of the ribs (according to the Schools:) it refults a serene and irrefutable truth, that they have no motion at all; but from the first to the last moment of Animation, continue quiet, without variation of Figure, or enlargement and contraction of Dimenfions. What clearer manifest of folly and invincible dotage can there be, then to confesse, that all the twigs, or smaller Canals of the rough Arterie are constantly wide open, as being necessarily distended by the contexture of the ringlike Cartilages: and yet at the same time confidently to maintain, that all the same Canals, upon the attraction and explosion of aer, in the reciprocal motions of Respiration, are dilated and compressed? Besides all this, the Schools, in their lectures, deliver it for establisht beyond dispute, that the Diaphragme or midrife doth, as prime and fole Efficient, suffice to the ordinary use of Respiras tion: and yet anon they fall foul on their own maximes, and substitute the intercostal muscles, as Coadjutors, or Auxiliaries, to the performance of that office. Again, there frequently arise out of the stomack such belchings, as carry along with them the lively expressions of edeurs formerly received into the Lungs by inspiration: therefore are the Lungs and midrife perspirable, that is drild full of small porofities. In earnest, tis worthy our most passionate tears, that the Schools have, for fo many ages together, unhapily milpent their sweat and oyle, in fripperies, childish pageantry, and comeying Romances more wild then those of the Talmud artifolto. I shall urge another casse and familiar experiments) if, in a prone decumbency, that is lying with your face to the earth, you place one hand on your belly, and the other on your ribs, and at the same time draw your breath at a moderate rate, you shall then plainly perceive, that the muscles of the Abdomen are the anely operators in the businesse of respiration: that the belly being lifted up, the midrife is drawn downward; and consequently that the cavity of the Abdomen is by so much enlarged, by how much

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much the plane or diameter of the midrife (in itself lax and undistended) is lesse then its semicircle, when it is drawne downward, and so much the larger, by how much the more lax the plane of the midrife is. Nay whats more, if you bind in your ribs with a ftreight girdle, and then fetch your breath very gently, you shall sensibly perceive the belly to be reciprocally elevated and depressed, the ribs all the while remaining quiet, without any visible motion at all; and by consequence, that the Lungs in this case, should we grant them so move at other times (which truth forbids) can remain quiet a whole day together, if the constriction last fo long. But in fighing, oscitation, sternutation, and intense respiration, or panting for breath (and in no other case) the muscles of the Thorax, running along betwixt the ribs, are fentibly perceived to officiate, and by a kind of fubstitute administration, concurre to the action of respiration. For the ribs are semicircles propendent downward, or arched into a lateral convexity; to each of which is annexed one of the intercostal muscles, which bend them upward, and by a kind of familar violence diminish their convexity in the dilatation of the Chest. And as they become greater, as to their concave, when they are bent into a diminution of their convexity; in that relation also do they become rouns der, as to the figure of the cheft; and so by consequence make the cavity of the thorax wider. Thus Orthopneuma. tick men, or such as by extreme difficulty in respiration are constrained to keep their bodies in an upright posture, heave up their shoulders high, every time they respire, by leaning their elbows or hands hard upon the pummels of their chairs; to the end, they may in some part relieve themselves in that extremity, by the enlargement of the cheft, and greater detrusion of the midrife. A certain matron, wife to Patritius, in hard travale (for the child came forth preposterously, with the buttocks forward) by a large inspiration of aer, striving to promote her throws, and expedite the birth, broak the membrane environing her cheft, betwixt the seventh and eighth ribs; yet without any ma-

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* Assellando wocabulum, et band raro pro congressu venereo apud Martialem, aliofque lassiviores authores usurpatum) bic modestion quidem metaphrafi, Panting reddere placint.

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nifest sence of pain (for a greater pain ever obscures a lesse) any Aposteme, or other Accident ordinarily subsequent up. on wounds or dilaceration of that so sensible a part. Some few dayes after her childbed, as often as the held her breath long, or extended her cheft, in finging, panting, &c. * she (obscanum sane felt a very large sumor of wind bunch up betwixt her ribs; which funk down again, when the compressed it with her hand, and let her cheft fall in again at the efflation of her breath. And from that time to her death, the never flept, but with a swath drawne hard upon that part of her breast. Which instance puts it amongst truths most manifest, that the aer attracted by inspiration is carried through the Lungs into the cavity of the chest. The same have I observed also in a very Noble Lady, who got this misfortune in her travaile; that whenever the held her breath, the had one fide of her throat blowne up, like a bladder distended with aer, to such a monstrous greatnesse, that no care or art could conceal it from the standers by. It makes very much also to our present purpose, that I have, with most serious attention, considered all Pulmoniaeal and Asthmatick Patients, and found, that, for the plurality, they sleep with great ease and quiet on one fide, and can hardly fetch their breath on the other. For we have no reason to doubt, but this maladie is Idiopathical to the Lungs, i. e. not occasioned by deuterapamy or consent with any other misaffected part : as also, that in that fide of the Lungs, which respecteth the prone side on which the fick man then lies, and which must in that prone polition bob and fret against the membrane lining the cheft, those pores are constipated or obstructed, through which the aer used to be transmitted into the cavity of the chest : and moreover, that the porce of either Lobe of the Lungs dependent upon or facing the downward side, are either all, or at lest the greatest part of them (which we may know by observing the degrees of extraordinary respiration; for the more or leffe difficulty of respiration, may be a certain rule to direct our compute of the greater or leffer number of pores obstructed) by some lapse of providence in disordered nature,

nature, or forreigne contingency obstructed. By which Argument it is manifest, that the Lungs are not Expanded and Contracted, like bellows, but pervious and transpirable, by reason of their numerous perforations: through which the aer smoothly gliding into the hollow of the chest, doth constantly hold an equal proportion to the magnitude thereof, as well in its diduction as contraction. And hence is it, that men sick of diseases in the Lungs draw their breath more easily when they six up; then when they six down: for the Lungs, when they hang directly downward in a free pendulum position, have on all sides those pores open and six for the transvection of aer, which have not yet submitted to

the oppression of observations. The reason the said to we.

148. Beyond all excuse therefore do the Schools erre, when they deliver, as an oraculous truth, that the midrife is the fole and prime Motor of the Lungs; and, in that relation. the proper and principiative efficient of Respiration. More particularly, that when the midrife doth contract itself towards its own Center, it then makes the Enpiration; but when it relaxes toward the Circumference, the Infpiration: and so the quantity of aer inspired must in exact proportion respond to the measure of the midrifes expansion or relaxation. Our reasons these, 1. Since all voluntary Motion is performed by a Muscle, as the part folely and principally adapted by Nature to that action, by a remaction of the taile toward the bead thereof; therefore, if their opinion fland allied to verity, must the midrife be a prime, beteroclise, and most principal Muscle, and the bead thereof feated in its Center. 2. If the midrife be an organ primarily executive of motion; then, though the Muscles both of the Abdomen and ribs cease from all Contraction and relaxation of themselves, would the midrife maintain the successive motions of respiration, by its own single power: Which experiment politively denies 3. Yea the muscles of the Abdomen, which are ordinary mufcles, would have no motion proper to themselves, but be moved, at second hand, by the previous motion of the midrife. 4. Vain and uselesse would

the contrivement of nature be, and her architecture imperfect in superfluity, in making the abdominal muscles; and the belly might have as conveniently been cloathed with the single coat of the Carnous Membrane, as with the bombast and duplications of so many muscles. 5. Since every organ of Voluntary motion doth execute its function by Traction, or drawing the part, into which its tenden is inserted, towards itself, the breast, according to this error of the Schools, would be drawne very much inward by the Traction of the midrife, and the mast convelled into the dwindling figure

* Clepfydra in of an Houreglasse. * 6. Further, the Expiration would not archetypo: quaest be a quiet or cessation from motion; but an absolute management to a quiet or cessation from motion; but an absolute management to a quiet or cessation from motion; but an absolute management to a quiet of the midrise contracted. 7. And so the Expiration quoex aqua, de would, even in most healthy men, be more difficult and lawitto in virum borious then the Inspiration; 8. Since then the Inspiration design, per exwould not be a motion, but a relaxion or quiet of the midrite for amen, gut tulatim destil-

lante, boras metiri solebant antiqui. Hodie vero, hominum ingeniis ad nobiliores machinationes feliciter provectio, exolescunt steps of the specific ferones in the specific ferones in the specific ferones in the specific ferones in the specific ferones of the specific ferones of the specific ferones. The specific ferones is the specific ferones of the specific ferones in tensor of the specific ferones in the specific ferones in the specific ferones of the specific ferones in the sp

49. Hence upon rationall deduction I conclude, 1. That the true and proper use of the Midrife hath hitherto remained unknown. 2. That the use of the Lungs hath never yet been met with, by the too lazy and jejune scrutinies of the Schooles. 3. That the exact manner and reason of Respiration hath also escaped the vulgar exploration of Anthropologists. 4. That Anatomists have never made a just and perfect discovery, which are the prime and principall instruments of respiration. 5. That the muscles of the Ab. domen doe alone suffice to maintain ordinary and moderate respiration. 6. That the Lungs are never moved by any naturall expansion and Compression of their substance; but serve onely as a sieve, or pecolatory, for the sequestration of the atomes of dust from the most simple and pure aer, which lis immediately transmitted into the concave of the Cheft.

Chest. 7. That the deplorable difficulty of curing diseases in the Lungs, especially where their Continuity is infringed, doth not arise from this, that they are uncessantly agitated by a viciflitude of Compression and Expansion, and in that respect destitute of that rest and quiet, which is necessary to the confolidation of a disunion (which hath ever been alleaged and admitted as an excuse for the languid and ineffectuall operation of vulgar remedies) but from hence, that the small apertures or extreme orifices of their perforations are blockt up by obstructions, whose remove is a task too difficult for the infirme fingers of common pulmonary medicaments, and onely to be hoped for from the Herculean energy of some Chymicall Panchreston *. To which we may *An universall Subjoyn, that nothing, besides aer, can arrive at the extreme Medicine. pores of the Lungs, and that aer is, by reason of the oppilatiens, there arrefted, and imprisoned, and doth also by degrees exfectite the obstructing glutinous humors. From which depraved root there springs up a whole grove of preternaturall productions which in their maturity put on the destructive blossomes of Aridity, Acrimony, and Malignity: and in the summer or ripening of these seeds of evill (which must, alas, be the aniumne of life) there must grow a racemation or bunch of desperate Accidents, such as extreame anxiety in respiration, Apostems of the Lungs, excsion or corrosion of their vessels, spitting of blood, ulceration, consumption, and in the catastrophe Death. For let us suppose, that all the aer attracted by the expansion of the Cheft, is ordinarily transmitted into the capacity thereof, through a thousand minute tubes or divarications of the Afpera Arteria; and that this just number of persorations in the Lungs is sufficient to the conservation of health, as to the interest of respiration: if therefore but a bundred of these be stopt up by obstructions, then must the party suffering this constipation, become, by one tenth part, more shortwinded, in long and intense motion, or ascending up hill, then other wise he ought to be. ¶

5.0. From this advantage we have a cleare and un-inter-

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rupted prospect into the field of Pulmonary remedies, and may at first glance discover, that Syrups, Lambatives, Loochs, ere, are lame and despicable reliefes of nature; since they never arrive at the parts diffressed, but are either diverted into the stomack, intestines and other places wholy unconcerned in their operations; or so impaired in their activity by a tedious pilgrimage through many Concoctions and transmutations, that they lose their primitive faculties, and grow too languid and evirate to encounter the disease. Nav what's more fad, that if they did arrive in the zenith of their seminal powers and unrefracted qualities at the camp of the disease: yet, like cowardly and treacherous Auxiliaries, they would aggravate the charge of Nature, and ruine that part, whose afiftance they pretend. Here also our enquiry meets a hanfome argument, why no one of the forementioned infirmities of the Lungsmay hope a Cure from any Plant in the Physicians garden, or Confection in the Apothecaries thop ; unlesse Fire, discreetly governed by the learned hand of Chymistry, and blown into a temper suitable to that Ignis non lucens, or invisible flame irradiating all our fabrick of frigid Clay, shall graduate some medicament into a Noble Entelechie, and make its balfame friendly and familiar to the principles of life, as natures own.

51. But as for those Precentions of Esterbr, which enjoyne the use of Coriander seed; and other such vain sopperies, after supper, for the prevention of sumes arising out of the stomack; how much more worthily; in the judgement of sober reason, doe they deserve our pitty, then our considence? For if the generation of vapours, from their causes (bumidity as the material, and the innate beat of the stomack, the efficient) and their ascention be naturall; what can Coriander doe to hinder that these naturall effects should not follow on the neck of their causes? Can Coriander inspersed upon boyling water in any small neckt ressell, impede the exhalation or ascention of vapours out of the water? At the same rate let us prise those magnified trisses and serious nothings of the Schools, when they with great ceremony

ceremony prescribe, that the haire must not be kembed, nor the head rubbed at night, but morn (forfooth) not towards the forehead, but backward; left Catarihs, obeying the posttional friction, be drawn forward. Nor doe we want just cause for our complaint, that both Gates leading into the divine Temple of Æsculapius are blockt up by heaps of frantick Chimæra's and the fabulous traditions of doting beldames; fince the true and proxime causes of diseases have to this very day, remained lockt up in the dark of undiscovery: nor have those Moles in Philosophy ever digged deep enough into the Center of their Seminalities and first principles, or

sweat sufficiently in their exantlation.

52. For how frivolous is the doctrine of Galen, through all his five books of the Confervation of health? In all which long and hollow tract you shall hear of nothing, but the echo's of Baths, Frictions, and Apotherapia *, or Unction after * Apoteraxia violent and athletick exercise. And though I have with inscribitus excommiseration observed the poverty and barrennesse of emplari Elzevi-Galen generally diffused through all his longwinded diff ramo; sed vel courses; yet in no one piece of his voluminous workes ex Helmontii have I more manifestly taken the altitude of his mit, then where with extreme seriousnesse, he prescribes the severall welcompositoris distinctions of positional Frictions to be used (forsooth) incwin, box longwaies, transverse, ablique, and circular; and these, like the vitium suam ridiculous Ceremonies of Necromancers, to be observed with punctual and strict obedience, under no lesse then capitall penalty. For Rome was infested with fewer diseases, and tum enim vothose more gentle and benigne, and warmed herselfe at cabulum tale fewer funeral fires, in her first five innocent and growing (quod sciam) Centuries; then after she had triumphed over conquered apud Galenum Greece, and among other Trophies brought home the fatall and infectious Libraries of Physicians. And all Europaans, autem quam who harbour few or no Phylicians, will, without any re-plurimis in lock luctancy to their experience, confirme the same.

calamo ad alia ocyùs festinante, duxisse originem consentaneum est. Nul-Apotherapia ejusdem lib. de Cons. fanit.

ofurpatur, cujus proprius scopus est, ut lassitudinem, que immodico exercitio succedere solet, admoto oleo, submoveat atque prohibeat. Consul. Galen. lib. de san. tuend.2. cap. 6, & 3. cap.z.

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53. The Schools with serious gravity wonder, that so valt a quantity of Muccus, or glutinous gelly, should ordinarily be avoyded by stool, upon the operation of Coloquintida; and yet that the quantity of expectorations in dileases of the Lung, should be thereby no whit diminished: and so while with insolent ostentation, they glory that they have found out the Antecedent cause of Defluxions; at the same time enchanted by the effects of Purgatives, they will by no force of argument be brought to confesse the falsity of their Phlegmatick axioms. Now Coloquintida, Scammony, Elaterium, &c. dry the body more in one day, then the Decoction of China can in three moneths. What benefit then can, in reason, be hoped from China, where more exliccating Purgatives confesse their invalidity: and their use must needs be borrid? From this, who so purblind in his understanding, as not to see, that the pædantick Schools, adhering to the doctrines of their Ancestors, have fet up their rest in this, that the writings of the antient Ethnicks ought to be their Neultra in Philosophy; that rhey are not obliged to any deeper disquisitions, or further explorations, but onely to order their Cures, according to the antique and thredbare Theorems of Physick. And though they cannot but observe their Prattice shame their confidence, and the fuccesse fall short of what their specious Canons promise: yet doe they not blush to veile over their bloody ignorance, nor feel compunction at their inhumane resolve, that they had rather their afflicted Patients should still remain suspended betwixt the calamities of the Disease, on one side, and the more murderous tortures of their Purgers, on the other; then take the pains to study and explore any more rational and probable means of their redresse. And, sober truth makes me confesse it, so many Myriads of Incogitancies and Absurdities, could never have thus long continued in the Schools, confishing of men so acute, judicious, prudent, and experienced (among whom I as willingly as juftly confesse my selfe the most despicable and unworthy) had they been pleased to abate any thing of their implicite subscription,

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and recede the lest step from the Axioms of Pagans. But, alas, they are closely belieged by the grand enemy of primitive truth; who holds them captived to the tyranny of his Delusions, by the chain either of Arrogancy, Incircum bettien, Cruelty, Avarice, Lazinesse, Stupidity, or; in fine, of shame to be reformed. Good Jesu! when wilt thou be pleased to cast this devil out of the Schools? when will the measure of these fatall evils be full, and the Vintage of these source Grapes come; that, at length, by the comfortable sunshine of thy truth, this Ægyptian night may be exhaled, and this mist of horrid calamities that sits heavy on the heads of all the wretched sonnes of Adam, be dispelled? Thy answer is, there can be no remedy for his blindnesse, who wilfully and stubbornly shuts his eyes against the light of a confessed verity. Therefore,

Just God! all things are just, thou dost approve;
Thou unmov'd Rule of Truth, and Font of Level
But since we scorn'd thy wifer Lames the bey
Wee'r made to Fools a Scorn, to Quacks a Preference

54. Some Anatomifts there are who have diffected a living Dog; and when they came to the Laryne, drenched him with milke, or other broth, tinged with Saffron or Bole Armeniack, to the end they might perceive whether any part of the liquor entered the lungs : and found that a very small quantity thereof gave a tincture to the sides of the Apera Arteria. On this they cried out, that there must be an infensible and ordinary descent of excrements from the brain into the Lungs; and enacted for an establisht truth, that Lambasives, fince they are carried immediately into the Larynx, and thence flide down into all the most slender and remote tubes of the Aspera Arteria, must be the sole and extreme remedy of Consumitons, and the most prevalent means to Consolidate Vlcers in the Lungs. An experiment, in troth, of very much cruelty to the Dogge; but of farre more cruelty and unhappy confequence to Man: fince, at the perswasion hereof, the Schools have delivered it from hand *Hie Author to hand * down to posterity, as an imprægnable verity; and proculduble almaking erroncous and unjustifiable inductions upon missable and onely imaginary positions, have subscribed unto sopperies so pernicious.

opoplar Antiquorum, à Paulan. sic descriptam. In Academia Promethei ara est unde homines in urbem accensas lampadas ferentes decurrunt. Sequiturque victoria eum qui facem accensam conservarit; nam si extualtà fuerit, alteri succedenti ea traditur: eademque ratione tertio successoris si secundus non pervenerit ad metam, cum lampade accensa. Quod si nemini ardentem

deferre liquerit, palma in medio velinquitur.

For, First, what can they expect that Syrups and Lambatives should doe, in the slender branches or divarications of the Aspera Arteria, more then inevitably introduce the mischiefe of obstructions? To what end, therefore, should these fulfome Looche naturally and ordinarily affect that way of descent into the lungs, or be transmitted thither, or there entertained? fince in that place they can neither be digested, nor changed into good and nutritive or balfamicall juyce; nor yet conduce to the cure of either the purulent effluxions from ulcers or viscid Muccus expectorated And further, if some part of our liquor should ordinarily drop into the lungs, then would the ordinary spile of healthy men favour of the broths eaten, or fyrups lickt down. And although our first spiele sometimes relish of the syrups, or other liquid remedies, newly swallowed down; yet such ariseth not from the Lungs, but Palate and other parts seated in vicinity to the jawes: nor doe the succeeding salivous rejections, for that reason, confesse an inquination or tincture of such Lambatives, as in another case the succeeding spitle returns fuliginous exhalations or fumes, received into the Lungs, a good while after their first admission. Again, were this fea-zible, then would any man, who should lick up severals ounces of Syrup, in one evening, be, ere many minuts, reduced to the bosome of his cold grandmother, by the inevitable destruction not onely of an Ashma, but even of suffication ensuing; for a part of those Syrups must fill up and choak the great pipe or cavity of the rough arterie. Seriously, our wonder may be excused, if we stand amazed,

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how the Schools, feduced by fo blew and dull an experiment of a Dogge, have baulked the observation, that this coloured broth, or Milk died with Saffron, was rapt down in the Larynx, not by the ordinary way of Deglutition; but unawares and preposteroufly, the poore distracted animal howling amids his torments, and so opening the Epiglottis. Not that the same is done of custome in bealthy, or frequently observed in rheumatick persons. For precisely, if a man in an extreme fit of the flone, endeavouring to make water, doth chance unwittingly to open the porthole of his arie, and confront an Irish man; must it therefore be the proper function of the Sphintler of the bladder, when it relaxeth it selfe, and gives way to the efflux of the urine, an old sup in ordinarily also to unlock the sphineter of the part A squiline? For tis no rarity, for parts of the body, when their economie is infringed and disturbed into tumult and confusion, by excessive pain and torture, to perform their functions deprayedly; and draw other parts also, to which they are allied by vicinity of fituation, or connexion, into the fame diforder and irregularity. Their beliefe had been more fecurely placed upon that History of one suffocated with a small fether, and of another with a baire, unfortunately flipping into the rough arterie. For so had they flood confirmed, without dispute or hasitancy, that the Lungs cap never admit any forraigne intrustion, or receive the smallest grain, without confiderable dammage and hazardous anxi iety; nay that fuch as are afflicted with difficulty of respiration, can by no means endure to much as fragrant fuffumigahumano the state of the state o

tum Localis, tum Alterativi; idque nedum supetis, aft etiam inferis. Blas Humanum verd duplex constituitur apud Helmontium nostrum. Unum nempe Naturale, quod singulu visceribus, prima ex conformatione implantatum radicaliter; per energiam radialem, vel effluvium insorporeum, in partes sui regimini consignatas, agit freune en monnichialiter : boc est, potestate as Coluta, independenti, non locorum vicinitati, connexioni, aut supinitati obligata, & quolibet corporis situ aque truculenter. Per exemplum. In Famina bysterica, ex utero (cujus sceptro univarfam feeminei fexus teconomiam, absolute subditam, serio contendit Helmont) inspiratur blas porestacivium in reliqua viscerum, qued sirum corundem primigeneum, figuram, officia,

imò & crasin etiam nativam mutet penitus, alienetque pro sui arbitrio. Unde buic utique radialiRegiminis actioni, nequaquam autem putaticiis scholarum vaporibus, humorum ve revera non-entiam exhalationibus, quocunque etiam miasmate contagioso imprægnatis, ritè condonandas decrevit quastibet uteri exorbitationes atque indignationes. Alies perinde hujuscemodi Blas Humani Naturalis effectus, nobis evidenter satis conspiciendos exhibuit ipsa Natura, in fingulis Digestionum officiais. Est namque constans Authoris dogma, Fel & jecur sua perficere munia, non quidem corporali contactu, congressa, aut commistione sui; nec denique amplettendo & recipiendo suum intra gremium : ast per Aporrhæas incorporeas, influxum radialem, five Fermentum inspiratum. Fel enim dimittit fermentale blas in intestina: & jecur fuum in venas mesenterii. Alterum Voluntarium : quod per internum velle sibi motor existit, five quod voluntate animalium ad motum localem dirigitur. Huic autem thefi, sat firmo tanquam fundamini, Helmont superstruxit suum ariem, ad istud scholarum axioma diruendum, quo ineauta admodum docuere; In omni mosu locali statuendum de necessitate primum motorem immobilem. In suo namque tramite, cui titulus Blas Humanum, ab illo sat demonstratum existimo, aliquid esse in sublunaribus, quod seis um localiter & alterative moveat, abjque Colorum Blas, & motore immobili naturali. Voluntas enim primum est ejusmodi movens: movetque seipsum quoque Ens Seminale, tam in seminibus, quam borum constitutis. Hine insuper quecunque Insensitiva moventur, per quandam veluti Natura Voluntatem moventur, habentque suas naturales necessitates & fines. Fusior hujus paradoxi explicatio petatur ab ipso Authore.

If therefore Suffumigations and aromatick exhalations, such as promise a gratefull succour to the Lungs in their oppressions, be injurious and burdensome; what will not grosser and slimy Lambatives do, though we grant them to arrive at the lower vessels of the lungs, with all their vertue and essicacy about them? No man, that ever saw but one dissection, will deny, that when ever any thing is swallowed down into the stomack, at the same instant the Larynx is shut close by the Epiglottis, or trap doore, that carries the sigure of an Iny-lease; so that not the smallest atome can slip into the Lungs. And I have known some men strangled, who had their Epiglottis not shut sufficiently close but on one side, by reason of a Convulsion of one part, and a resolution or Palsie of the other.

55. And here we are faine upon the detection of another collateral Error of the Schools; in particular, their unadvised Affertion; that Lambasives smallowed down gently and by degrees, the head veing at the same time respected into a position looking above the horizon, descendinto the Lungs; but not those, that are smallowed down greedily and at once. If so, I demand,

whether

whether the dog under the diffecting knife, did lick and by dea grees swallow downe the coloured liquor; or chop it down at once? To what purpose did the Anatomists poure it into his throat to be drank at one fwallow or gulp, if they knew before hand, that it could not fall into the Lungs, unlesse lickt down gently? But letting this Hypothesis stand, that the Lungs absolutely abhor the admission of all external things, meer Aer and fuch as is not incorporated to Fumes and Exhalations onely excepted: and then it will necessarily follow, that whether any thing be lickt down gently, or drank down ravenoully at once; yet still the President of the Epiglottis, or janitor of the Lungs attends the execution of his function, and observes the Clausure of the Larynx; fince thereupon depends no lesse then the hazard of life. This, I conceive, may make it indubious to the most prejudicate, that Lambatives and syrups, though they may, by introducing an uncluous surface upon the parts, make them more smooth, slippery, and so more fit for the rejection of visi cid excrements flowing from the palate and other parts adjacent; yet are they of no small detriment to the stomack, nor can, in the lest degree, or largest latitude of intention, afford ease or benefit in affections of the Lungs. But the Schools reply, that the falivous rheume or defluxion, doth insensibly, and by its own spontaneous laps, or natural tendency, distill into the Larynx; and that, in this relation, Lambatives must be beneficial and sanative.

56. But neither of these articles can stand; since into what position soever the neck be disposed, or however inflected, yet the same care and warinesse of Nature to prævent that nothing drop or insinuate into the Lungs, is constantly continued. I beheld a Tumbler, not long since, stand up on his head, his hands and feet inverted, and in that possure drink a glasse of wine. I appeal to Anatomy, and wil-

lingly submit my hand to the ferula.

fleep, run whole torrents of spitle; who if they chance to fleep in a supine posture, that is on their backs, it instantly happens,

happens, that they must turn themselves on one side, or awake and fit up, nature being affrighted by the terror of the danger imminent: and if any of the spitle fall accidentally and mawares into the Larynx; thenceforward, untill all be again exploded, they cough uncessantly. But, to come home to the center of the businesse; what comfort or succour can sugar, mixt with the cadaverous Lungs of a Fox, or imbued with the juice of Coltsfoot, adfer to the Lungs; when they utterly abhor the intrusion of any forreigner, admic nothing but Aer unlesse by accident and ex improviso, and when any thing is entred into their confines, immediately reject it with great anxiety and labour? Can such a remedy fuffice to the reflauration of the decayed Faculties? Can this cut up Cataribs by the root, or expunge the seminal miasme, or original impression fixt upon the Archeus? I professe, on which hand soever I turn me, on what part soever I place my disquisitions, I cannot discover, that the Schools war against diseases, with any other weapons, but the wilde dreams of the Gentiles, or strike at any thing beyond their effects and secondary Productions, leaving the head and principal Caufalities unaffaulted; and all this, by reason of their ignorance of the Essence and Causes of Diseases. And hence hath the name of Physician falne under the facete reprehenfion of Comedians, and this proverbial reproach, that Phyficians care not what they should think, what do, or how order their meditations, in order to their obedience unto that strict Precept: Be ye merciful, as your Father which is in beaven, is merciful, grown intouse. And, as St. Bernard, concerning the Clergy feeding upon the fins of the people, in respect they live upon no other revenews, but Almer ; so I concerning Physicians. For they consider not, whether they discharge their duty to the Commandment, or satisfie the debt of Charity; who banquet and grow fat upon the defections, languors, and infirmities of the people. Often Trave I pondered, but discover I cannot, how these Plagues of Agypt, these clouds of palpable darknesse, were introduced upon the Schools; unlesse from hence, that being feafoned feasoned with evil principles, and infected with unjustifiable traditions, they frequently met with Affections, which, according to their outward appearance, and without scruple or stricter indagation, they instantly referred to the fabulous scene of Catarris.

58. For instance, a certain sick person, invaded with a head ach, foon after feels a dull and ponderous pain in the neck, a difficulty and indisposition to motion; and the leaden plummets of Morpheus are too light to draw down the curtains of his eyes; on the neck of these Accidents ensues a manifest pain and imbecillity of the loyns, which seems to be traduced down to the thighs, and thence to make a progreffe to the legs and feet. Hereupon it is decreed, that Pain f since an Accident of inharence) cannot transmigrate from one subject to another; unlesse something Material, succesfively trickling down from the brain along the muscles of the spine, and by a spontaneous motion arising from its own tendency to declivity, remove from a superior to an inferior part: which may very accommodately make out the received Appellation of a Catarrb. It must become our method of exploring verity, to examine and detect the dotage and improbability of this perswasion concerning defluxions, by the judicial test of Anatomy.

from the brain by the neck; no man can doubt, but that it must be transported thither, either through the Ventrieles of the brain, or through the substance and membranes of the brain, or betwixt the Pia and Dura mater, or betwixt the Bura mater and the Skull, or, in fine, betwixt the Skull and the Skin. For the Consequence is warrantable from a sufficient enumeration of the parts. But, sirst, not through the Ventricles of the brain; since that could not come to passe without the inevitable introduction of an Apoplexy, or universal Palse: if the doctrine of the Schools, concerning the origination of these diseases, stand sirms. For if the matter of the Desluxion be excluded from the cavities in the fore part of the brain; and thence discharged upon the

fourth ventricle, and so carried into the spinal marrow fuccessively; it cannot but horridly offend those noble parts, and being an alien and acrimonious excrement, cause desperate and invincible obstructions, and by consequence an Apoplexy or Palsie. Secondly, the matter of this Defluxion cannot, per damidnow, by transudation through the substance of the brain, be first accumulated between the brain and its thinner investment, the Pia mater, and thence delaps; so that both Coats may yet keep their continual distance and separation from the very marrow of the spine: in regard the defluxion in its descent cannot but commit a divulsion and folution of unity, in the medullary roots of the nerves, according to their longitude; (i. e.) as they run out in their distinct disseminations. Which wanteth not a multitude of absurdities. In like manner, should the Catarrh be rained down betwixt the two membranes; each of those slender investments, provided by nature to envellop the spinal marrow, would be double: which Anatomical inspection could never yet justifie. And should we allow it so to be, it would not onely impede the motion of the Muscles; but also excite extreme torture, and convulfive retractions of the Nerves. So there lieth an Error in the Thefis; fince the Nerve, indeed, is the organ delative of the mandates of the Will, (i. e.) the mediatory instrument by which the Will transmits her spiritual Mercuries on an errand to the muscles: but not Executive of Voluntary motion, (i. e.) not the immediate executioner of the commands given out. More plainly thus; the Will is Queen Regent ; the Animal spirits, the Nuncij, or Embassadors; the Nerve, the instrument of their transvection or delation from the brain, or white-hall of the foul, to the member to be imployed; and the muscle, the executioner of her defignes. That a Nerve is not the executioner of Voluntary motion, may be clearly argued from hence; that very few nerves, in thicknesse exceeed a thread of double Now a Nerve, being inserted into the external part of its peculiar muscle, cannot probably convey the rheume down to the midle of the muscle, without inferring a Palfie of that part, from its own obstruction, or a convulsion from the aerimony and virulency of the Defluxion. if they shall affirme, that the Catarrh doth trickle down betwixt the Dura mater and the Skull; I may appeal for decifion to Anatomy, which autoptically demonstrateth, that the perforations of the spondils of the spine, through which the nerves are threaded in their elongations from their original, the spinal marrow, are so exactly sitted to their mag. nitude, that not a hair can be thrust between, without a senfible Compression of the nerve; so that, by consequence, there can be no void space left for the intrusion of a Catarrh into the muscles, from the spinal marrow. We add, that though our Adversaries could find out a place; wherein this fictitious rheume may be congregated; or passage for its defluwion upon the spinal marrow, and diffusion thence through the perforations of the spondils into the muscles: yet, we believe, it would amuse their sophistry, to give a plantible reason of the succeeding progresse thereof, and fully to make out, how a humor, once delapted upon a nerve running out betwixt two spondils, can remigrate, or return back a gain to invade other nerves successively one after the other. What, doth the wanton rheume grow weary of one nerve, and to satisfie its defire of change, at pleasure remove to another? Tis a Quere not unworthy a substantial determination, how a deluge of sale rheume can stream along a tender and extremly fensible nerve, without causing a finpor, or dull insensibility, in that member into which it is inferted? Can it infinuate into the tendinous bead, and thence creep along into the tail of a musele? Can it retreat thence again, to affault other muscles successively, as the situation of the second is more prone or declive then of the former, and that then the third, &c? or, if there may be a new supply of the defluxion, confiantly succeeding, imagined to flow from parts above, to fresh ones below; how comes it to passe, that the superior parts, first invaded, obtain an immunity from the mischiese? For since the rivulet of rhoume doth spring from one fountain, the brain; and run in one continued Chanel, the spinal marrow: why should it not rather follow the old tract, then wander into a new, and undergo the difficulties of forcing, and as it were mining out a fresh current? Why doth it, as if carried on by an adulterous unconstancy, desert its antiently accustomed bed; and affect the embraces of a fresh, nay frequently a feeble part? Why doth it forsake its frequented quarters, and range in quest of strang and never yet frequented lodgings? Hath it such an Appetite or malitious propensity inherent, that goads it on to variety of objects, whereon to sate its hostility? For conclusion; that this Error can expect no sanctuary, in the possibility of the rheums defluxions between the skull and the skin; and through the sime substance of the Muscles, each being invested with a tunicle sufficiently compact and thick: may be amply collected

from our precedent disquisitions.

60. All this being fummd up, by the impartial Arithmetick of Reason, and examined by mature judgement; the total Product must amount to this: that there can be no may, medium, connexion, or dependence, by which a Catarrb may sublist, in verity. And since no rheume or material principle can be found out to have descended, even in any of those diseases, for whose sake chiefly the Schools first invented this Chimera of Gatarrhs: Know all the friends of truth. that as often as any peregrine Aer or blast, any offensive odor, any putrefactive Ferment, or exotick Seminality is impressed upon, or conceived in the Influent spirit; so often is that contaminate and degenerate spirit excommunicated from the participation of Vitality by the severe justice of the incensed Archeus. And the Genius or disposition of this depraved Seminality conceived, is of no lesse power then this, that it can transmit the Influent spirit, made an alien to its primitive purity by the assumption of an exotick Ferment, rather to parts seated at distance and in the suburbs, then such as are neighbours to the Rialto or palace of life. As we shall at large declare in our discourses

of the Gout *, of the duumvirate *, and elsewherere. For * In trastatu thus Mercury, externally applied by Unction, subtily runs (Volupe Vithrough all the body and invades the throat, tongue and ventium morteeth. Farther, when this vitiated spiris arrives at the place, putatus, nomito which it was dispatched; instantly it there imbueth the nate) ad quem nutriment of that part with its putrefactive Ferment, trans- He'mont, suas planteth and transformeth it into a conformity or analogy bic remittit leto the idea of the Seminality: and that nutriment thus inquinated, by successive expirations or Afflations, and for causas, aique reigne impressions, doth disorder and pervert the sunctions nativitatem, of the digefive Faculty; and by this means doth not onely breviter ad hunc generate a plentiful harvest of Excrements; but also stigma modum descriptize, or impresse this depravity upon the Implantate spirit of tas videre est. that part, so deeply, that it can hardly be expunged during quit) eft charathe whole after life. All which the Schools, like mendicants, eter morbidus, precarious desume from the brain; & erroneously impute to siminalities in their four imaginary Humors, and the defusion of Rheums. spiritu vita in-On which Consideration, my Theory stands point blanck maturitatis terin defiance to the doting tradition of Catarrhs; as positive. mini, fructum ly denying and wholly subverting their material Cause, re- acidum fermenceptaries or places of concretion, efficient Canje, and manner of talem gignit, Generation and Defluxion: and separating the true Causes, spermaticis par-Effects, and method of Sanation, far from the ridiculous tabilem. fictions of a Catarrh.

bus antiquitus. Etores, Arthritidis naturam, Podagra (inexistit ergo Podagra in cruores

multoque minus in excrementis. Verum Podagrici primum agitantur in præcordijs, & tom internas potuum atque ciborum, quam externas aeris vici fitudines fentiunt; imò & fape has futuras prasagiunt. Quare patiuntur sebriles motus primum, circa officinam spiritus Vitalis. ac quidem paroxysmi initiis. Etenim primi motus è pracordits ascendunt, sedem anima sensitiva adoriuntur. Conceptus namque in pracordiis Character, Luna atque Mercurij typos explicat: atque deinde in corde perficitur. Formatus antem five maturatus Character, Spiritum ibidem febrilem induit, quatenus inficit. Qui simul atque acorem symbols vita five fermentalem concepit, motu febrili abigitur squallens , & ad loca destinata (crudi viz. spermatis in symaia Articulorum) febriliter deferter. Spiritus, inquam, sic infectus, et non humor (quod notandum) synoniam in le transparens, cum Aciditate fermentali coagulat in gri mum opacum. Adea ut præ ponticitatis conceptæ gradu, calores, delores, tumoresque podagræ distinguantur. Laticem verò advecari doloris buccina, & per venas dimitti, od eluendim, certum est. Itaque ron quod dolet, quod tumet, vel ardet, Podagra est: sed hujus sunt producta. Neque enim per pilam bombarda sublato pede, ablata est simul podagra, sire Arthritis : siquidem in sensatione per organum sensus, fit tantum consensus partium, &c. Sed borum fides esto penes Authorim, . 61. By. * Lege jus duum viratus Helmentij.

'61. By this time, we believe, it is plain and unquestionable, that no falt, acid, sharp, phlegmatick, or Cholerick humor can distil from the brain; but that, whenever the Influent spirit, polluted with some alien and putrefactive impression, doth arrive at any part of the body; then doth nature, without delay, fend thither the Laten, or fourse of serous humidity, to expung this impression, or at least rinle away the Excrements, there growing from the depravation of the digestive Faculty. For the Spirit, once vitiated by any forreigne Contagion, wildly rangeth at pleasure through the nerves, arteries, yea and the very babit of the body; whereupon, the fick feeming to feel as it were the defluxion, or trickling down of a cold rheume, the brain is immediately accused as treacherous, and the grand author of this ryot and irregularity in nature. Now since the Latex is fent to the part newly invaded by this malignant impression, not as the primitive Cause of the evill (though frequently, by accident, it doth foment and aggravate the mifchief, and so make the vitiosity more durable) but as a relief, or stream to wash away the impression: hereupon have the Schools, to this day, remained doubtful, and durst never go fo far as positively to determine; whether in the Gout the Catarrb is derived from the bead, by the Nerves: or whether transmitted from the Liver onely, by the Veins. And thus evident it is, that the Phlegme and Choler of the Schools flow not from one fountain, or Cataract; as though the brain were the Common server of all these impurities. A. gain, as for the last refuge, whereunto the Schools flye, for protection of their impossible dream of Catarrhs; namely the Declivity or downwardnesse of the situation of the members, as in relation to the brain, and the facility of the pass sages: it may easily appear to be too rotten and fragile to afford them shelter. Since as in dead bodies there are none of these respective situations, but onely in living; so also all motion of humors in the body is immediately caused by the Influent spirit, as the onely impetum faciens, and mediately derived from the Principle of vitality in whose occonomy

the Afcent of humors is of no more difficulty then the descent. For in living bodies, no humor oweth its motion downward, to the declive tendency of its Gravity: but, in impartial truth, to the aim or direction of that miffine power, which levelled it at this or that determinate part. Hitherto concerning the impression of an External depravity upon the Influent spirit: it follows that we declare the probability and manner how the same spirit may conceive, and as it were batch an internal Character, or domestick tincture of corruption. It comes to passe not seldome, that the Latex contaminated by the admixture of some forreine Sale, doth therewith infect the Influent Spirit, so that it instantly becomes degenerate from its requifite simplicity and purity; though not by reason of any external injury of the aer, offensive odor, Sulphureous Fune, &c. but from a breath or blaft of Conta. gion conceived in the part affected: yea that taking a dislike or abhorrence from the Latex (as being polluted, and fo uncapable of its vital irradiation) it grows enraged and forgeth within itself a character of anger and reuenge. After this the uncivil Latex, like a rude souldier that intrudes himselfe into quarters against the will of the Landlord, forceth itself into the society of the offended Influent firit; and though unfit for its conversation, as well in regard of its Acidity, as immoderate quantity, yet it still followeth and hangs upon its skirts. In which relation, the most hopefull remedies for most of these diseases which cause erratick paines, as also for internall Ulcers, must be Baths, Sudaries, and Stoves or Hot bouses: for by procuring liberall and profuse sweats, and by that means exhausting the Latex, as the fecondary and fomenting material Cause, they feem more directly perpendicular to health, and conducible to the pacification of Archeus his worship; then the more ineffectuall and languid Solutives and Expecatives of the Schools. 9.

Vaine, therefore, is the story of a Catarrh arising originally from the stomack into the head: and its Condensa. tion, Concretion, and Congregation in the ventricles of the brain. Vaine are the descriptions of its Defluxion, between the coats of the final marrow, or between the skull and skin, upon the Mustles. And, of necessity, vain and deplorable must such Remedies be, as are administred when the Causes of the Diseases are wholy unknown. Vain also are Cauteries and Fontanels, for the Revulsion and Exhaustion of Humors, that have no real existence in nature. And to conclude, vain are the Decoctions of China, Guajacum, Saffafras, &c. exficeating Drinks; fince the evill ariseth, at least is occationally aggravated by the Latex, and must be fomented by any immoderate quantity of humidity. From whence we have a faire opportunity to collect, that fober and parfimonious drinking doth very much conduce to health; nay to the cure of Vicers in the Lungs, as also of the Goute. Since the Latex, which according to the Primitive institution of nature ought to be insipid, upon the excessive drinking of eager Wines, such are French, Rhenish, and Sherry, doth acquire a manifest Acidity, or sowernesse, and instantly communicate the same to the blood; from whence proceed Corrosions, sharpe Spasmes and Convulsions, errattick poines, and chiefly the Gout. But of the history and necessity of this Latex, we have written a particular Difcourle.

62. You may please to remember, that the primitive Materrial of all concreted substances, is onely Water*: and all fruits
naturalium pri- or productions of mixt bodies arise from the same principle.
merdius, per Mechanica Pyrotechnia experimenta, suo de more, inquirens Author, in tract. de
Elementis; duo duntaxat reperit Primitiva Elementa: Aerem scilicei & Aquam. (Ignem namente fine Annualan, de advibilationis ordinarià capax: Terram vero, secundarium

Elementis; duo duntaxat reperit Primitiva Elementa: Aerem scilicei & Aquam. (Ignem namque Ens Anomalon, & adnihilationis ordinariò capax: Terram vero, secundarium tantum elementum, sive fructum ex Aqua, virtute seminum, concretum, cò quod tandem cenvertibilis set in aquam, per privationem sua essentia, esse existimat.) In hanc autem sententiam se incidisse fassus, lapidem, gemmam, silicem, arenam, marchastam, argillam, terram, vitrum, calcem, sulphur, & c. transmutati in Salem actualem: & quod Sal iste, aliquoties cum Sale Circulato Paracelsi cogobatus, suam omninò sixitatem amittat, tandem transmutetur in aquam inspidam; & quod aqua ista æquiponderet sali suo, unde manavit. Nec in contrarium valet, quod imperitus atiquis socian obsiciet; Vitrum esse ultimum artis subjectum, quodque nec igne nec

n te deleri, aut in aquam resolvi unquam possit. Erudietur enim, si Vitri pollinem pluri Alchali colliquaverit, ac humido loco exposuerit; mox totum vitrum reduci in aquam limpidissimam : Cui si affundatur Chrysulca, addito quantum saturando Alchali sussiciat; inveniet statim in fundo arenam sidere, eodem pondere, quo prius saciundo vitro aptabatur. Idem etiam sperari possit esfectus ex Universati illo Menstruo, Liquore Alchahest; qui omnia totius universi corpora tangibilia persettè reducit in aquam diaphanam, absque ulla sui mutatione (i.e. quoad Formam essentialem, sive nativam seminis dotem) virium vè diminutione. Hujus autem supendi sane Magnalis preparationem, à Paracelso, vel Bassilio Valentino Monacho olim inventam, es ab Helmontio, veluti Arcanum nemini, nist dato prius Sacramenti pignore, revelandum, subdotè desossam; me aliquando, ubi dabitur occasio, coram mundo liberè promulgaturum, sondo.

Let us therefore grant, that the Latex, being naturally infipid, doth, upon the accesse and fermentation of any semi. nality, or fructifying tincture, instantly grow Acide. example, in the beginning of the Spring, if you make an incision in the rind of a Vine or Birch tree, neer the rost, there will distill forth a very great quantity of thin insipid liquor, which is nothing but the water freshly attracted out of the earth: but if the incision be made higher in the stock or branches, then will the liquor be a little Acid. reason is the same in the Later, which being naturally insipid, doth, if contaminated by the contagion of any ferment admixed, acquire a sensible Acidity, and inherit any forreine quality, or tincture devolved from the vitiofity of our aliment. This Latex the Schools have wholy neglected, and indeed because they confounded it with the Wrine. Tis a blind and rude method of exploring the fecrets of nature. to make no distinction betwixt the Generatum, or production, and the Materia ex qua, or materiall cause thereof; no difference betwixt the Mother and the Daughter; as if the Muccus ordinarily dropping from the brain by the nostrils, the salivous bumidity of the jawes and tongue, the Water effuled betwixt the omentum, muscles of the belly and the skin, in the dropsie, and the Urine, were all one and the same matter, namely the liquor we ordinarily drink. The Liver therefore being misaffected, and invaded by any hostile impression, if it found a retreat to the Latex, and call back the streams thereof to its own affishance a doth not convert it

into 2

*Ta bibipum into Urine, but makes it the material cause of ædematous * Tu-

Adronimi, ab morsoon an Anasarca a.

Hippocrat, lib. de natura hominis, appellantur tumores laxi, molles, indolentes, ad digiti compressionem cedentes, à pituita tenui, seu sirgiduore & humidore parte massie sanguinea ortum ducentes. A Anasarca est tertia hydropis species; quam quod universa corporu moles aqua lenta & concreta sussiunta, Anasarcam & Leucophlegmatiam surre renim ballucinatur Aretæus, in 2. de diuturn. assect. cap. 1. dum discrimen quoddam inter Anasarcam & Leucophlegmatiam imaginatur) Græci nuncuparunt. Illius autem originem & naturam susse aperit Hipocrat, lib. osei answir.

63. I am not a person subject to such extravagancies and wild fingularities, as to affirme, that the Pleurifie, Tooth-ache, and other such maladies, whose tortures were insufferable, were they not in some fort moderated by their acutenesse, or brevity of duration, are no real Entities. For I too well know, and lament their tyranny over us. I admit them as Diseases: but oppose the vulgar tradition of the causes, maner, means, waies, end or deltinations of Catarrhs. Those fictitious and inconfiftent causes I deny, and explore other more reall and probable; in whose remove, the direct way. to the restauration of beath doth consist. I acknowledge that any man, upon the rupture of an Aposteme in the Lungs, may die suddenly: yet I positively deny, that a Casareb is the cause of this Aposteme, or that death is ushered in by a Defluxion. And with much more earnestnesse I deny, that an Aposteme in the Lungs can be generated from vapours exhaled from the stomack, and recondensed in the brain. For which reason I account not a Consumption the daughter of a Defluxion of rheume upon the Lungs; but the genuine issue of their own Archem seduced into irregularity, and a depraved execution of the power delegated to his administration. I conced that the Gent may be præfaged a day or two before the invalion of its paroxylme from the sensation of the motion of the falt matter which runs to the joynts like a drop of scalding liquor: but cannot allow a Catarrb to be the cause thereof, fince I know assuredly that its material principles, manner of generation, waies of distillation and places of concretion and collection, are prodigious figments

figments, irreconcilable to truth. But the Latex, ordained by nature to wash away the impurities from all parts official to concoction (like the river Alphens brought by Hercules to cleanse the stable of Augeas) is of itself innocent and infipid: but in its course meeting with the pollutions of saline tintures, resulting from impure and inconvenient aliment, it soon degenerates into burtfull and acrimonious, and breeds Apostemes, Vicers, and pruriginous maladies; as the Iteh, Scabbs, &c. I cannot fool my own credulity fo far, as to apprehend any probability in the common opinion, that vapours can ascend out of the flomack into the plane of the brain, be there condensed into water, where is a constant actual beat; and thence penetrate through the substance and double investment of the brain. Nor can I shake hands with that impertinent herefie of Paracellus, that the aer drawn in by inspiration is carried down directly to the stomack, and other viscera of the lower belly: but allow that a very small quantity thereof is insensibly strained through the capillary perforations of the midrife. For in long compression of the breath, neither any considerable intumescence of the Abdomen can be observed; nor doth the breath, upon its efflation, smell of any thing conteined in the parts below the Midrife. In like manner can no vapours of Wine or other insbriative liquor, arise up to the head, unlesse by the Arteries *. For whatever procureth *See Doctor vertigoes or giddinesse in the head, swoonings and other in Bemne in the toxicating Accidents, belongs to another Common-wealth, second book then that Eutopia of vapours. Nor from the Wembe can of vulgar ervapours be transmitted into the head; however vulgar Pa- rors. cap. 6. thelegie affirmes, that wild and durable persurbations of the tion. Animal Faculties, and a frong conspition of reason, are derivatory from molignant and narcotiall exhalations arising out of the wombe. For those surious notions and dions of the matrix are not to be ascribed to any simparby dependent on the necessity of Perspirability; but to the menemacky or civil war of that peculiar Monarchy of the won be, wherein women seem to be strangled by an ascention of

feme

fome certain globular body, or lump, up to their throat. This action is a commotion or tumult of the offended spirits residing in that part, or an error in the government of the Archem, or uterine President enraged, to whose arbitary power all parts of the body must doe homage and conform as I have amply explained in my Treatise called Ignote action Regiminia. For the dominion of which the Womb hath over all parts of the body, is no lesse absolute or dissusve, then that whereby the Testicles distinguish a Cocke from a Capon, a Bull from an Ox, and a man from an Eunuch; as wil in the Figure of the body, as the blood, sless, skin, and

enimolity. The second

64. But in regard all those diseases conceived to proceed from Catarrhs, the contaminated Lanx hath obtained a peculiar superintendency or domination over the other humors of the body, and responds to the nature of Water: therefore doe all Accidents accompanying such infirmities observe their periodicall exacerbations most toward night : the influence of the Moone, queen regent of all bumane substances, operating those vicissitudes, or causing ebullitions in us at those houres. And these Accidents display their hostility most upon the brain, weakned by any native or acquired distemper præceding: as also upon the Nerues and Adembranes, as parts whose small stock of Vitall beat makes them lesse able to resist or subdue the impressions of externall Cold. And hence is it, that Confumptive, Hydropick, Goney and decaying, bodies carry an infallible Almanack in their bones, prefage change of weather, and by the Augurie of their pains are forewarned of enfining tempelts: which I have, for that reason, Christned Tortura Notis, the torture of night. It is my ferious Viinam, and may be many others, that this way of prognostication had not cost us so deare, as the fufferance of fuch intolerable anguish and anxiety. For almost every week observes unto us, that men once inured to weare the fetters of the Gout, or tainted with any imperfaction of the lungs, yea fuch as are onely troubled with corner on their feet, are suddainly awakened out of their

pro-

Profounds fleep, by the twinges and cruell mementoes of their infirmities, against change of weather: and by this smart advertisement can at midnight tell, that fundath put on her sable weed of Clouds, and that the unconstant winds are tackt about to another point of the Compasse.

65. Paracelfus was pleased to opinion, that Mercury was Lord Paramont, or President over the Alimentary liquor, through the whole body: and for that reason, in another place (de morbis mineralibus) both in name and reality, he

confounds this Planet with the terre Grial Adonn.

66. But we, on more substantial and precise grounds, stand affured, that each nutritive bumor of the body doth conform to the regiment, and obey the alterative influence of that seminall part, unto which it is proximly to be affimilated: nor doe the liquid substances in the body hold any correspondence with the Stars, so long as they are not radically inoculated into the flock of Vitality, i.e. untill, by the irradiation of the internal Sol, or vital Spirit, they are rarified and exalted into a finenesse requisite to their participation of life. Which is a convincing argument, that the Marrow in the bones is an homogeneous part of the body; but no alimentary or liquid substance: since it is evidently subordinate to the Moon; and the brain, to whose influential power the bones are subject. And thus all diseases conceived to tyrannize over man, under the mistaken name of Defluxious, as also the Veneral Contagion, or French Pox, Contractions of the finews, torments of the joynts, &c. fall under this one generall title or denomination, Tortura Nothis: in this interest, that their Parexysmes or periodicall invasions depend upon the motions or ebullitions of the Latex, are regulated by the influence of our Moon, and observe their tides or vicilitudes in exact conformity to the various motions, positions, and configurations or reciprocal Aspects of the Planets.

